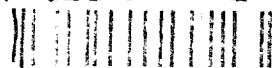
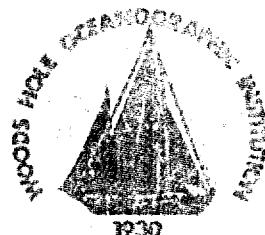


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**CTD Observations Off Northern California  
During the Shelf Mixed Layer Experiment,  
SMILE, November 1988**

by

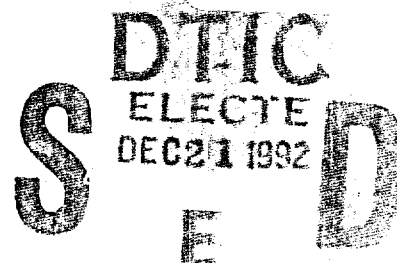
**Richard Limeburner and Robert C. Beardsley**

July 1989

**Technical Report**

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**Richard Limeburner and Robert C. Beardsley**

**Woods Hole Oceanographic Institution  
Woods Hole, Massachusetts 02543**

July 1989

**Technical Report**

**Funding was provided by the National Science Foundation  
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**Robert C. Beardsley, Chairman  
Department of Physical Oceanography**

**CTD OBSERVATIONS OFF NORTHERN CALIFORNIA  
DURING THE SHELF MIXED LAYER EXPERIMENT, SMILE,  
NOVEMBER 1988**

**Abstract**

CTD observations on the R/V *Wecoma* cruise W8811 were made off the northern California coast November 13-24, 1988 as part of the Shelf Mixed Layer Experiment (SMILE). The survey consisted of repeated mappings of the central transect (C) through the SMILE moored array, and two synoptic sampling surveys — a large-scale grid of four cross-shelf transects extending to both sides of Point Arena and Point Reyes, and a small-scale grid of five cross-shelf transects located near the central SMILE mooring site. The small-scale hydrographic survey had a much higher spatial resolution of CTD stations than the large-scale survey. The primary objectives of the hydrographic measurement program were to observe and characterize the temperature, salinity, density, and light transmission fields and their temporal and spatial variability in the surface boundary layer along the continental shelf and slope near the SMILE moored array, and to acquire an estimate of the cross-shelf and along-shelf scales over which the mixed-layer depth varies. All of the cross-shelf transects extended beyond the shelf break and the maximum sampling depth at each station was near-bottom or 600 m. This report presents a summary in graphic and tabular form of the hydrographic observations made during cruise W8811 on the R/V *Wecoma*.

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## 1. Introduction

Past hydrographic (CTD) and Acoustic Doppler Current Profiler (ADCP) mesoscale surveys of the coastal region near Point Arena, California (Huyer and Kosro, 1987; Huyer, 1984; Kosro, 1987) obtained during the Coastal Ocean Dynamics Experiment (CODE) in 1981 and 1982 have provided a description of the spatial structure of the temperature, salinity, density, and velocity fields and variability during the upwelling season (April to August). In summer, when winds were strong and persistently upwelling favorable, surface temperatures increase monotonically and surface salinities decrease with distance from the coast. Also, isopycnals, isotherms, and isohalines all slope upward toward the coast and there is on average a surface intensified, equatorward, baroclinic alongshore coastal jet found at midshelf. During wind relaxation (weak wind) events in the CODE field program, near-surface water warms appreciably, particularly nearshore where warm water is advected northward along the coast as a narrow inshore countercurrent (Send *et al.*, 1987). Also, coherent mesoscale flow structures identified over the outer shelf and slope with shipboard acoustic Doppler current profiler surveys are closely related to the variability observed in satellite infrared imagery.

During the Shelf Mixed Layer Experiment (SMILE), we completed three quasi-synoptic hydrographic surveys of the northern California shelf and slope in the general region between Point Reyes and Point Arena; the first just following the mooring deployment operations in November, 1988; the second midway through the long-term mooring deployment in February, 1989; and the third after the spring transition and just before the mooring recovery in May, 1989. The primary objectives of the hydrographic measurement program were to observe and characterize water property characteristics and their temporal and spatial variability in the surface boundary layer along the continental shelf and slope near the SMILE moored array, and to acquire an estimate of the cross-shelf and along-shelf scales over which the mixed layer depth varies.

We present here in graphic and tabular form a preliminary analysis of the hydrographic observations made off northern California during the November, 1988 SMILE field program. The large-scale survey was completed during November 20-22, 1989, the small-scale survey was completed three times on November 15-16, 19-20, and 20-23. A time series of CTD profiles repeated every hour at the 90 meter isobath at mooring C3 on the central section was completed on November 18, 1988 (stations 44-53) and the data from these stations is presented in Section 8 of this report.

## 2. Instrumentation and Calibration

A Neil Brown Instrument System model MKIII CTD fish was used as the primary profiling instrument during R/V *Wecoma* cruise W8811. The instrument provided continuous sampling of temperature, conductivity, pressure, and light transmission. Salinity and density were subsequently derived from the measured variables. The instrument package consisted of the MKIII CTD underwater unit mounted one meter below a General Oceanics rosette sampler with 12 five-liter Niskin bottles. A Sea Tech 25 cm pathlength transmissometer was mounted horizontally near the CTD fish. The fast response thermistor on the CTD fish was disabled and the instrument sampled at a rate of 32 hz. Lowering speeds were approximately 36 m/min to match the response times of the temperature and conductivity sensors (Giles and McDougall, 1986).

The CTD underwater unit is part of the R/V *Wecoma*'s scientific equipment and was calibrated at the manufacturer's calibration facility just after the cruise. The post cruise calibration specifications were given by NBIS and are shown here in Table 1. Water samples were normally collected at each station on the up cast at a depth where the vertical stratification was minimal. The calibration samples were then processed at Oregon State University by a Guildline AutoSal to determine *in situ* salinity. The individual salinities were converted to *in situ* true conductivity and compared to the conductivity output by the instrument. A least-squares fit of the difference between the bottle and instrument conductivity gives

$$C(TRUE) - C(CTD) = -0.000155143 * X + 0.0348627$$

where  $X$  is station number, and the sum of the squares of the residuals is 0.00284. The CTD conductivity for the entire cruise has been edited using the linear regression given above. The drift in conductivity was most likely due to the conductivity sensor being replaced with a new, but dated, sensor just prior to the November, 1988 cruise.

TABLE 1: NBIS CALIBRATION

Variable	Specifications		
	Range	Tolerance	Average Error
Pressure	0-1600 db	$\pm 1.6$ db	0.22 db
Temperature	1-30°C	$\pm 0.005^\circ\text{C}$	.0013°C
Conductivity	17-57 mmho	$\pm 0.005$ mmho	0.020 mmho

The Sea Tech transmissometer was calibrated by using the value for light transmission in air as 100% full scale. This air calibration corresponded to a raw count of 3860 on a scale of 0 to 4095.

### 3. Data Processing

The CTD data were recorded at sea on 9-track tape with the OSU CTD data acquisition system (Fleischbein *et al.*, 1983). The raw data were then edited, filtered, pressure sorted, and averaged at OSU using procedures for processing the pressure, temperature, and conductivity data described by Gilbert, Huyer and Schramm (1981). Normally, only the down profile was processed. The exponential recursive filter (Middleton and Foster, 1980) described by Cox was applied to pressure and conductivity to match the amplitude and phase of the platinum temperature sensor. The Cox filter has the form

$$c'(t) = w_0 c'(t - dt) + (1 - w_0) c(t)$$

where  $c'(t)$  is the filtered conductivity at time  $t$ ,  $c'(t - dt)$  is the previous filtered conductivity, and  $c(t)$  is the original unfiltered conductivity at time  $t$ . The filter weight is given by

$$w_0 = e^{-dt/tlag}$$

where  $dt = .032$  sec is the sampling period, and  $tlag = .235$  sec is the time lag of the platinum temperature sensor. A uniform pressure series of 1 db interval was then created from the filtered data, after spurious data observations (spikes) had been replaced with interpolated data. Salinity was calculated using Lewis (1980) and a value of 42.914 was used to convert to conductivity ratio (Culkin and Smith, 1980).

### 4. Data Presentation

The hydrographic data are shown in the form of vertical sections, T/S correlations, horizontal sections, vertical profiles, and tabular lists at graduated depths. Plots of the mixed layer depth for each survey are defined by a temperature change less than  $0.1^\circ\text{C}$ . Light transmission values are given as percent full scale transmission in clear air.



## 5. Acknowledgments

Cruise W8811 on the R/V *Wecoma* was supported by the NSF Grant OCE 87-16937. Dr. Robert Beardsley was the Chief Scientist on the hydrographic cruise. The work was a cooperative effort by R. Beardsley, C. Alessi, A. Voorhis, R. Limeburner, S. Lentz, J. Dean, R. Stanley, and M. Willis. Their assistance is greatly appreciated. Finally, the helpfulness of the officers and crew of the R/V *Wecoma* contributed significantly to the success of the cruise.

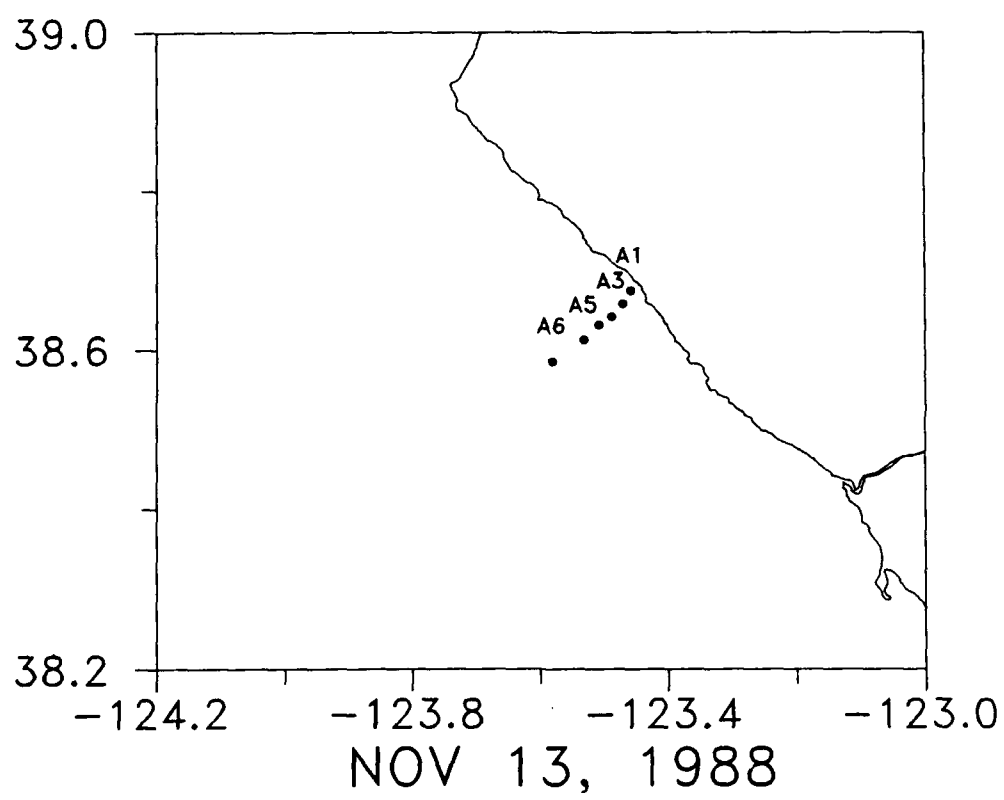
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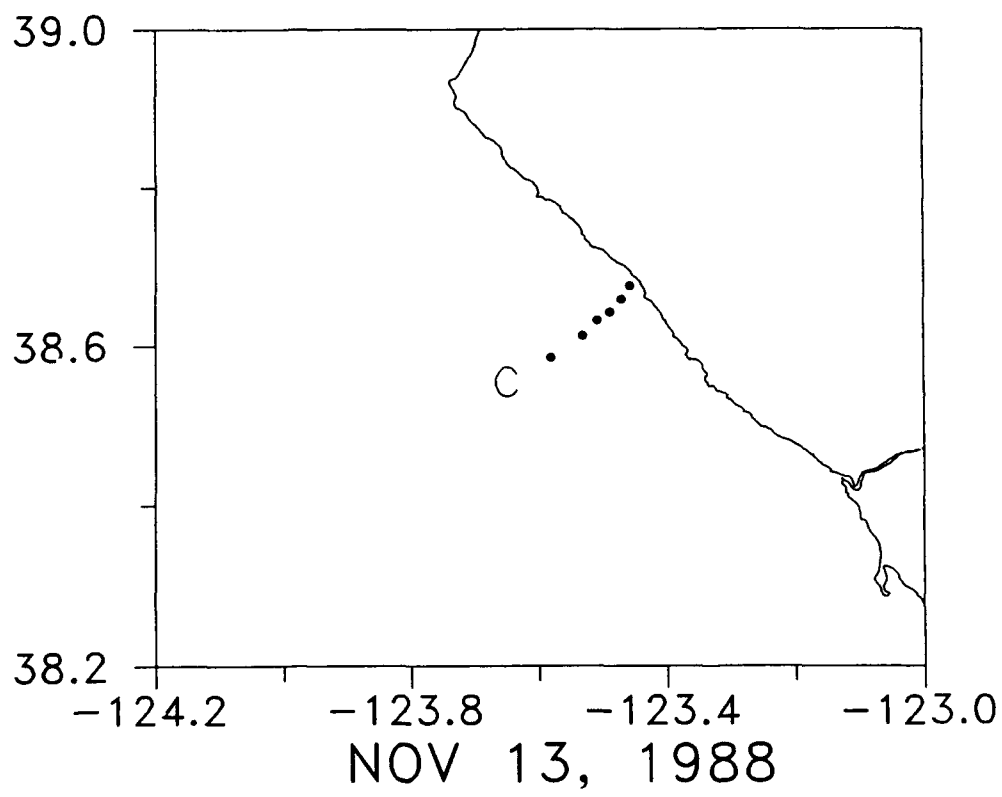
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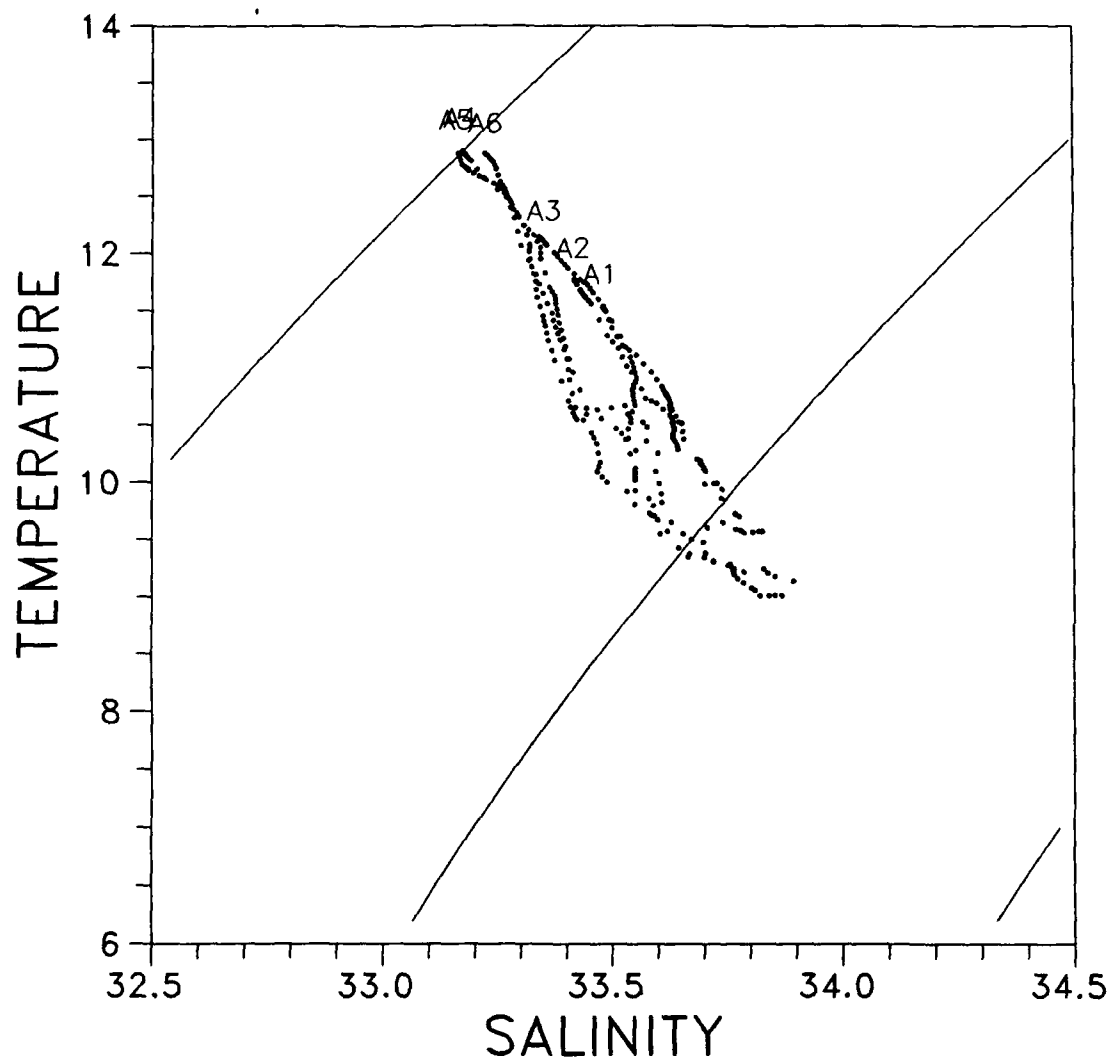
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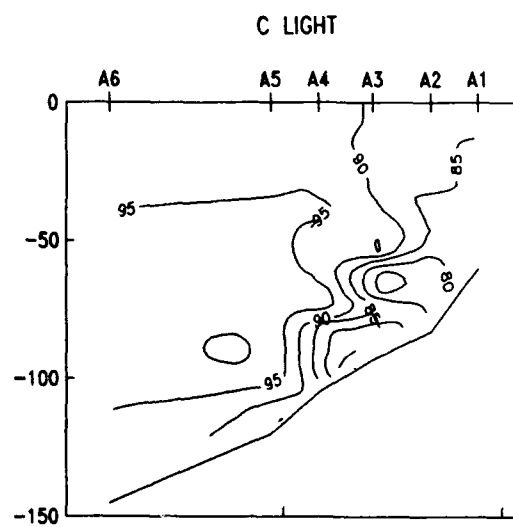
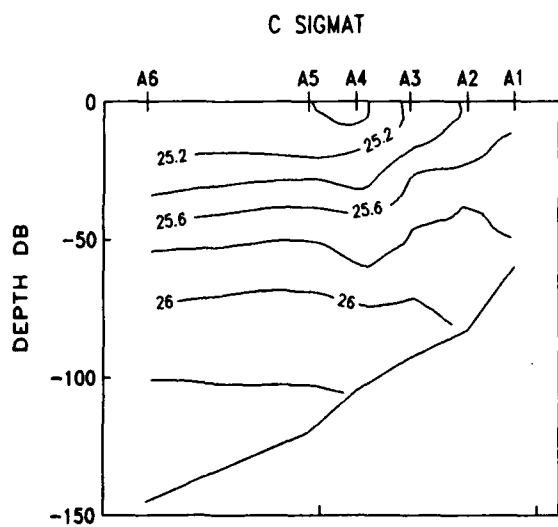
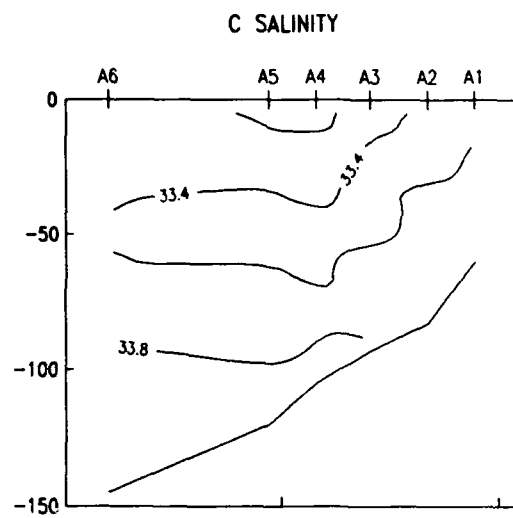
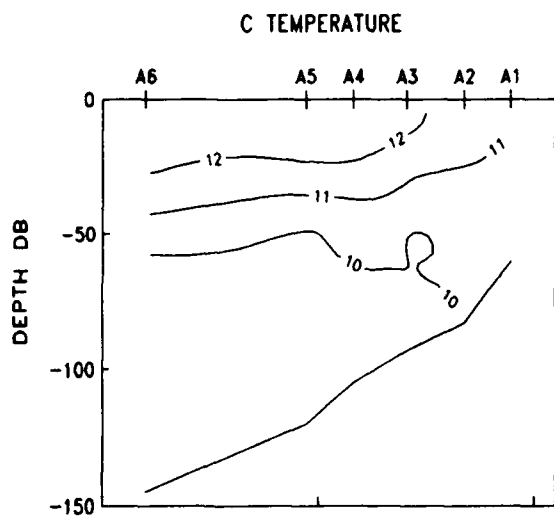
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**A. Section C – Nov 13, 1988 – Stations A1 to A6**





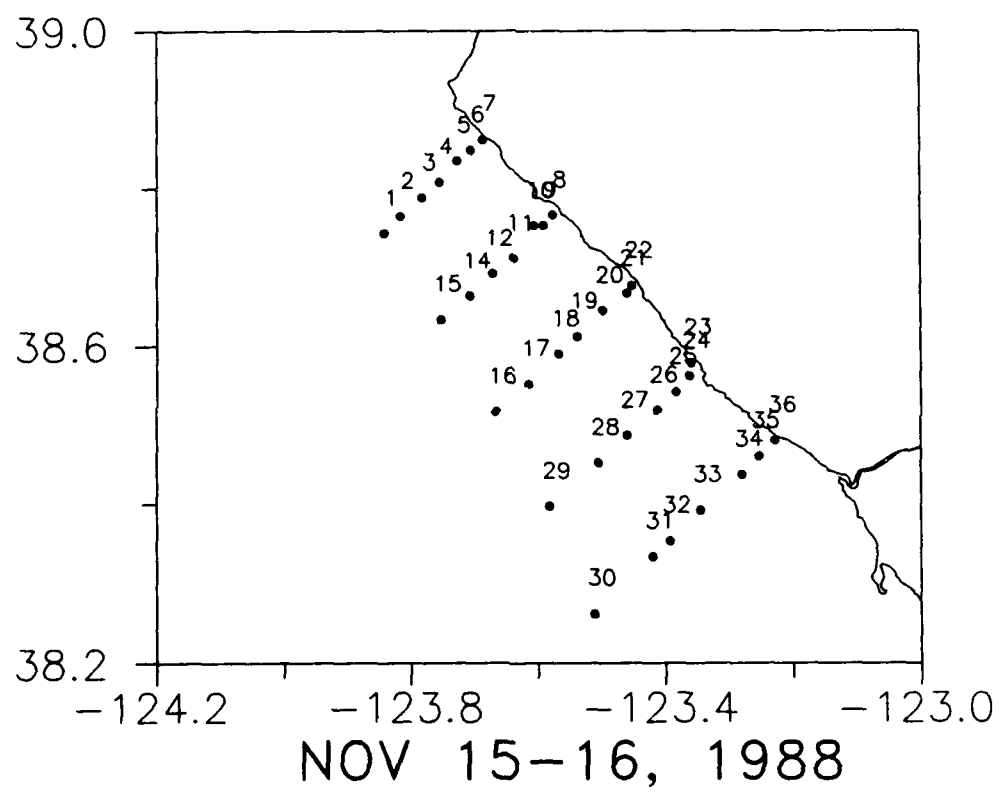


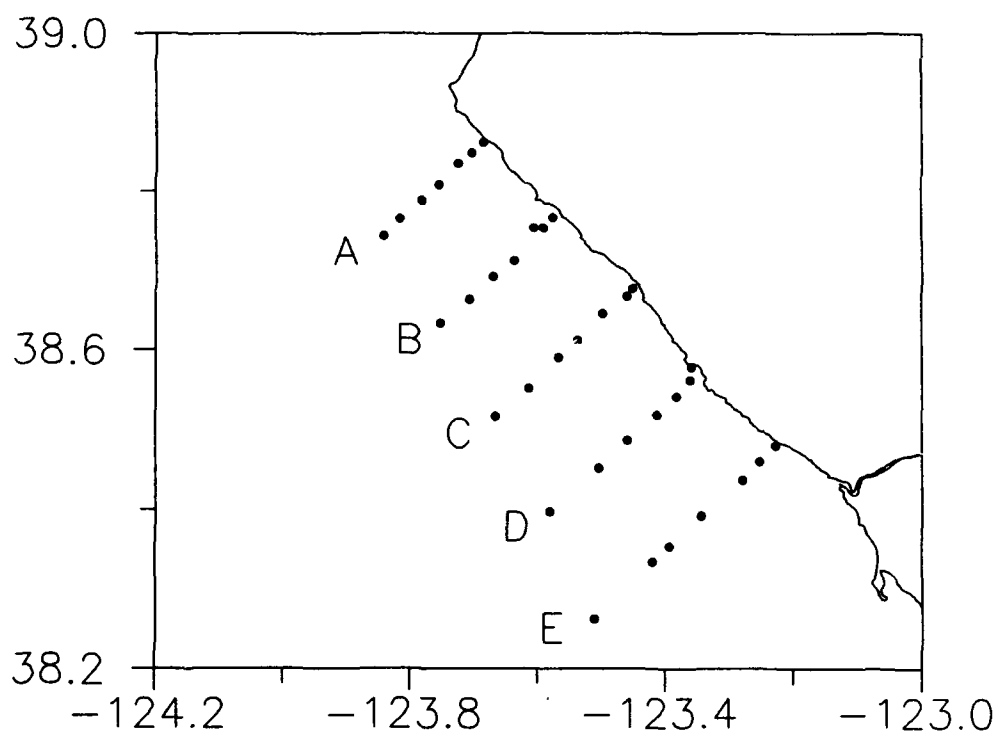


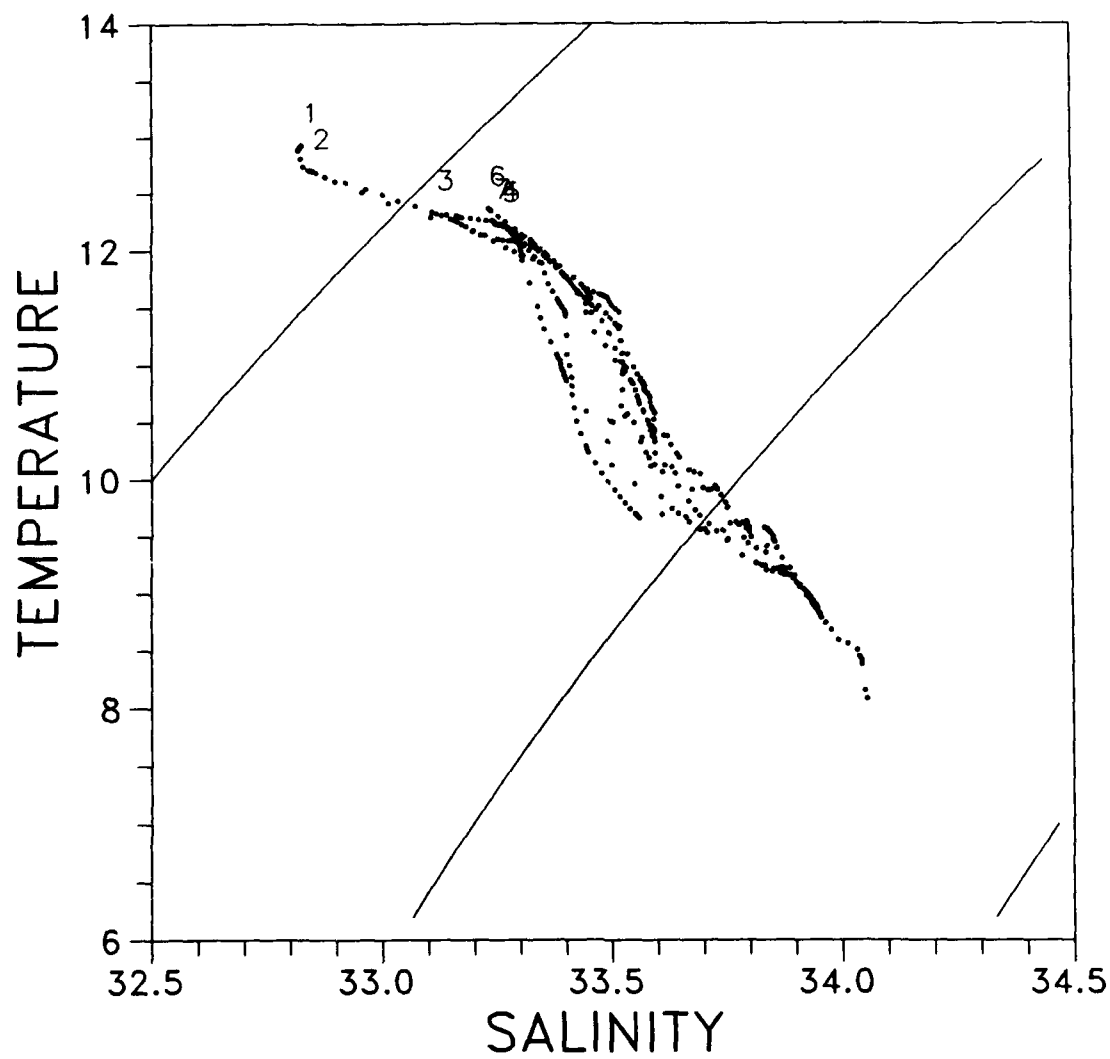


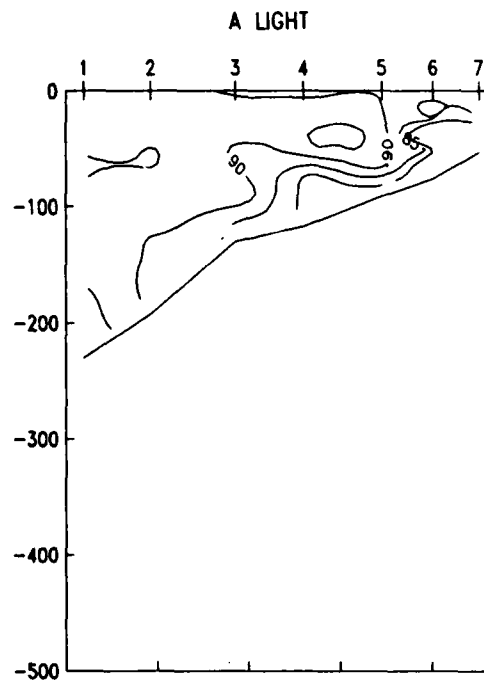
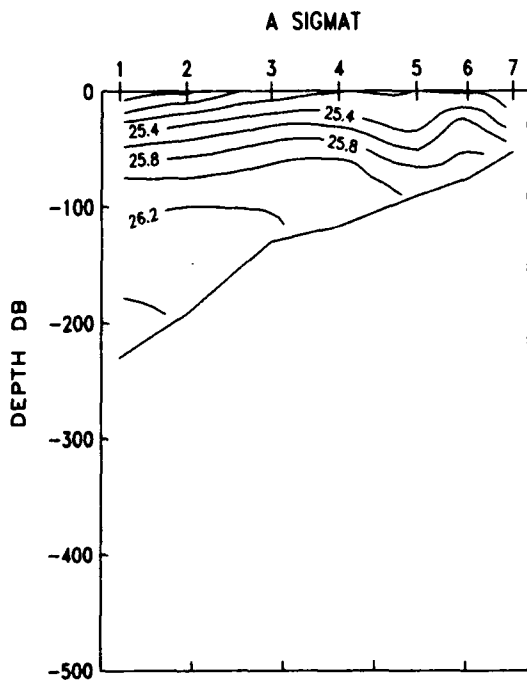
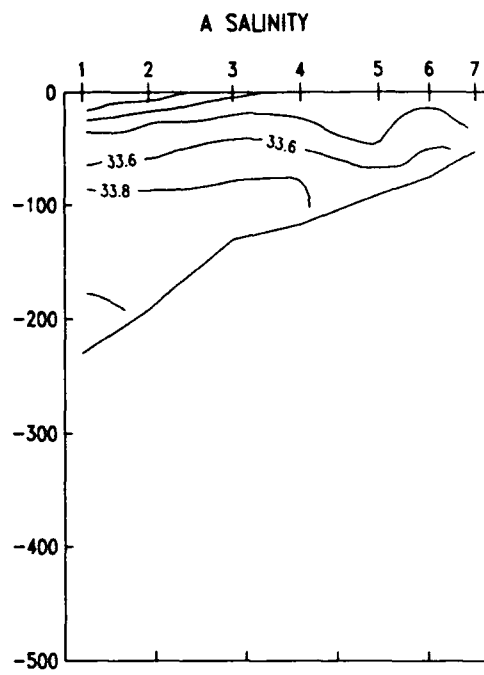
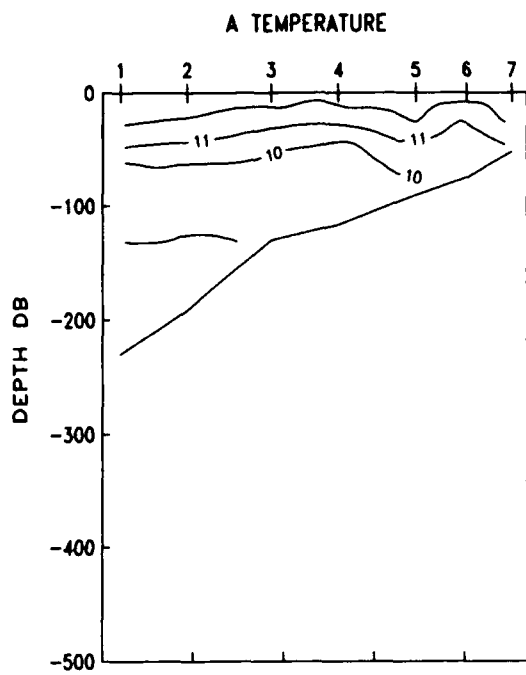


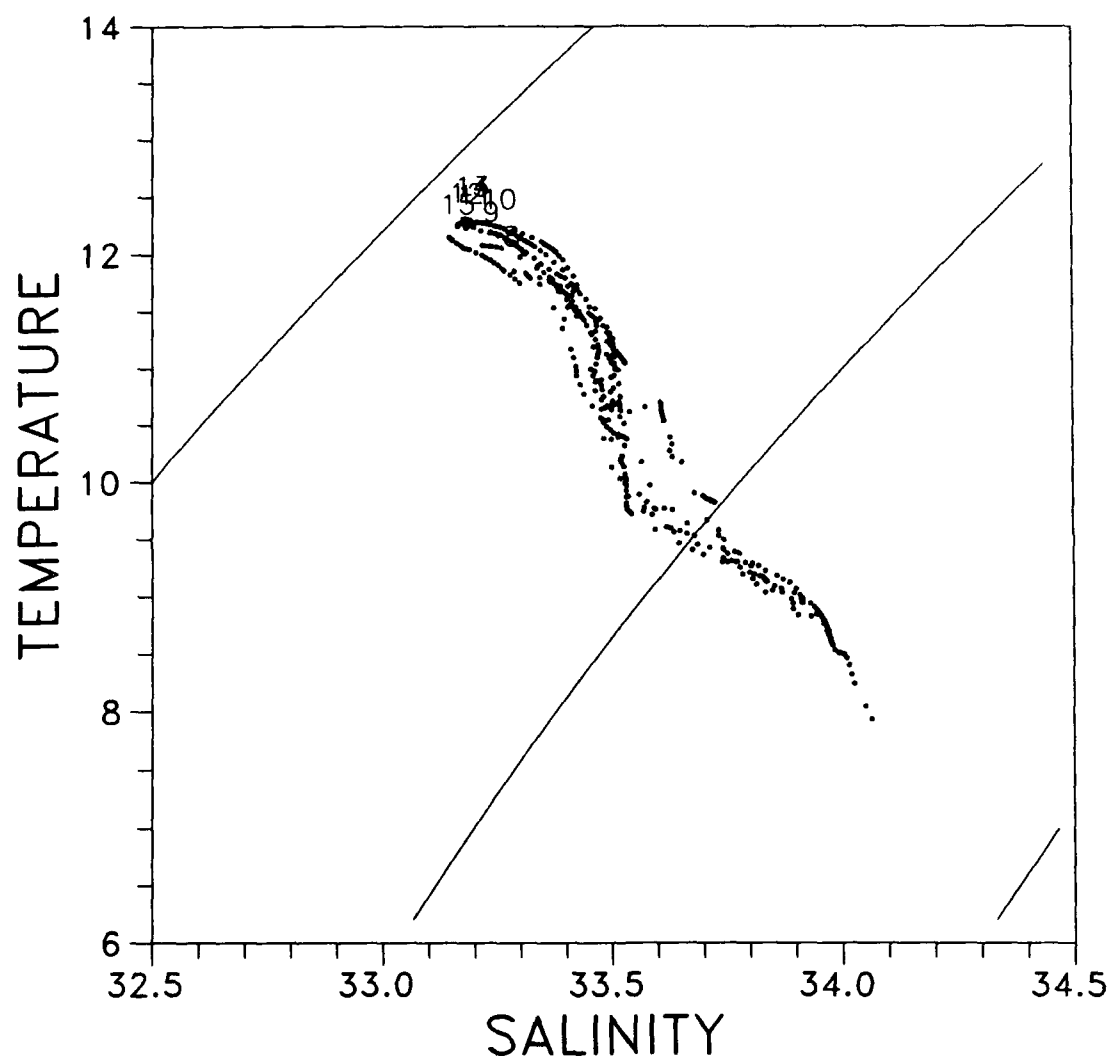
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**Stations 1 to 36**

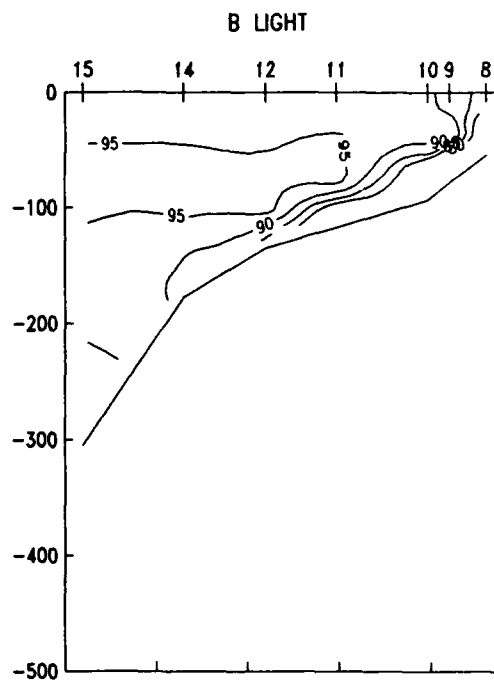
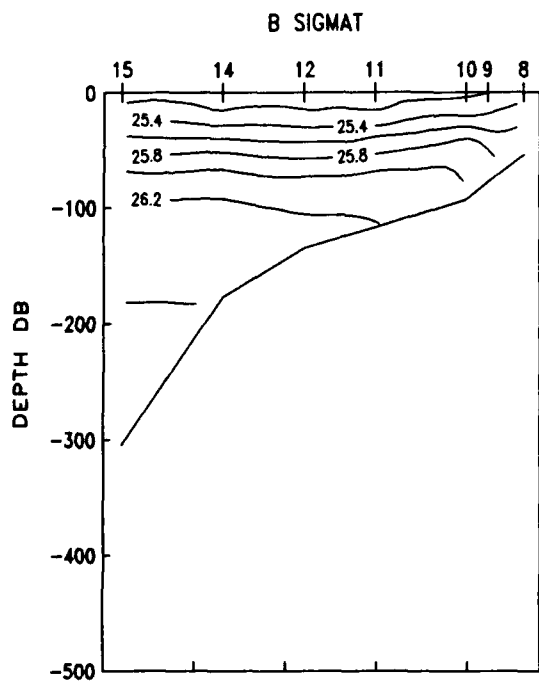
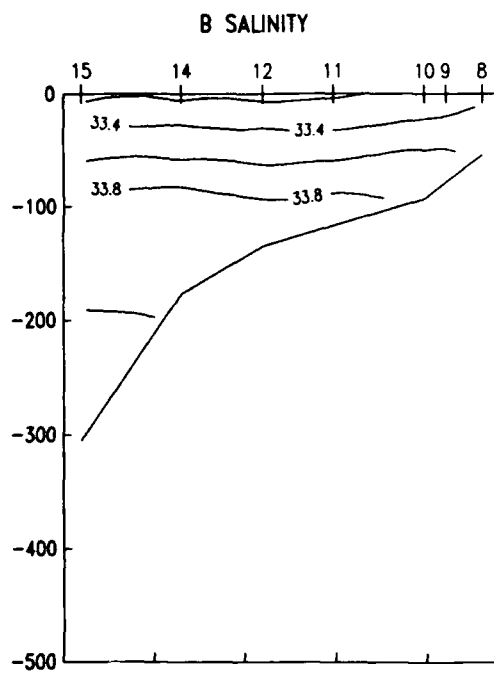
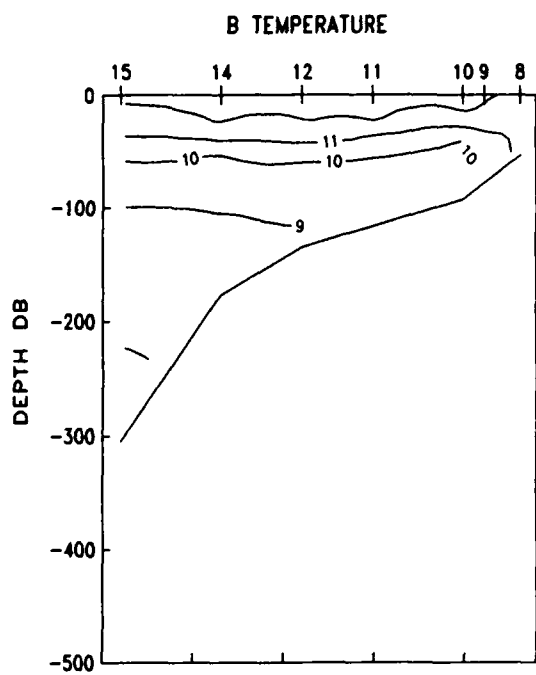


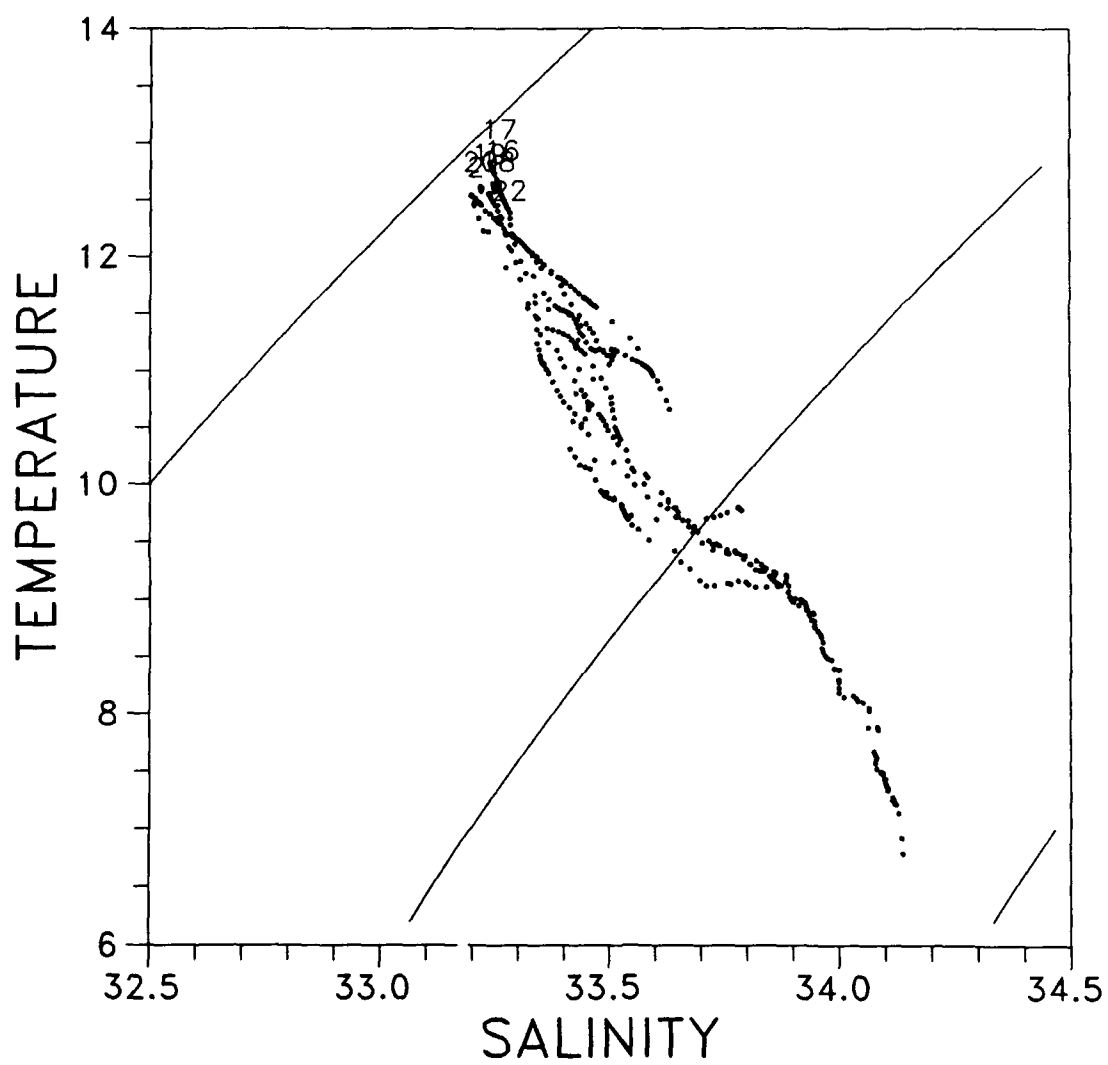






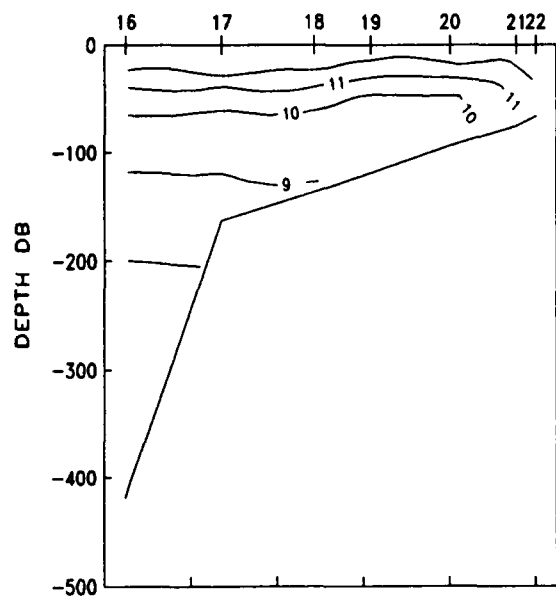




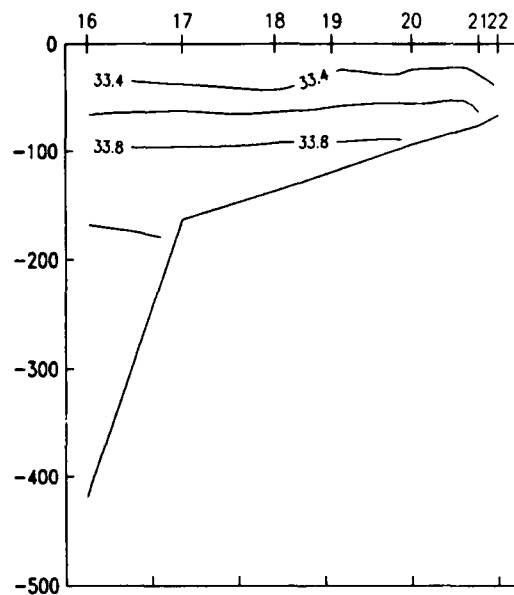




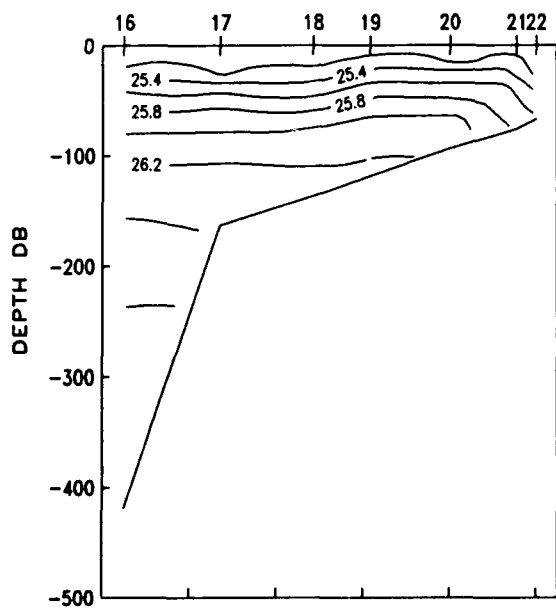
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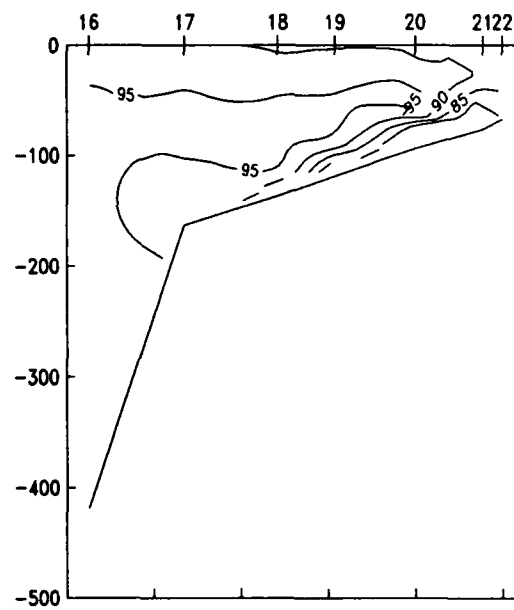
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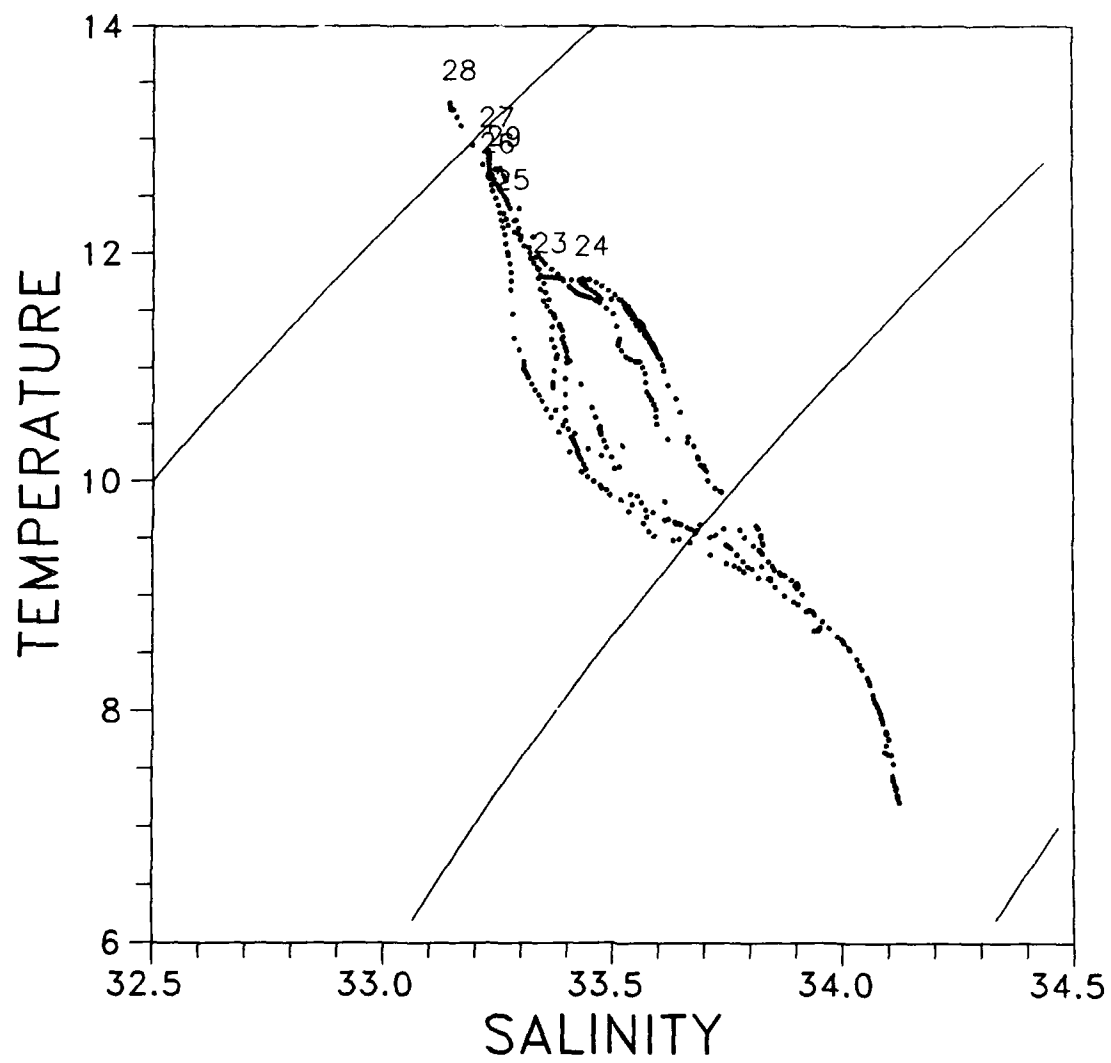


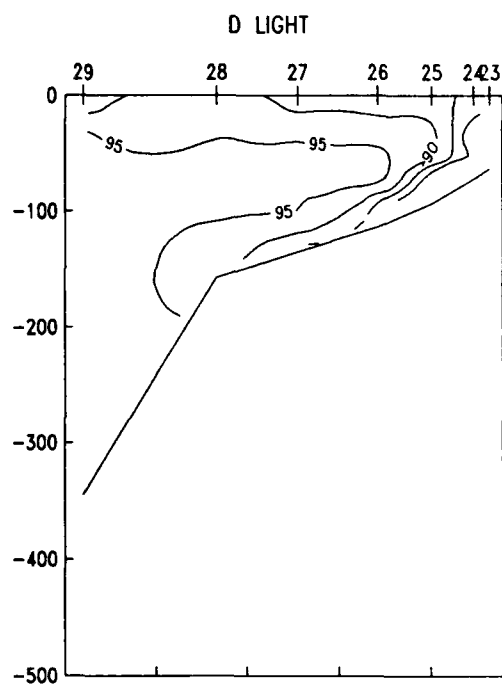
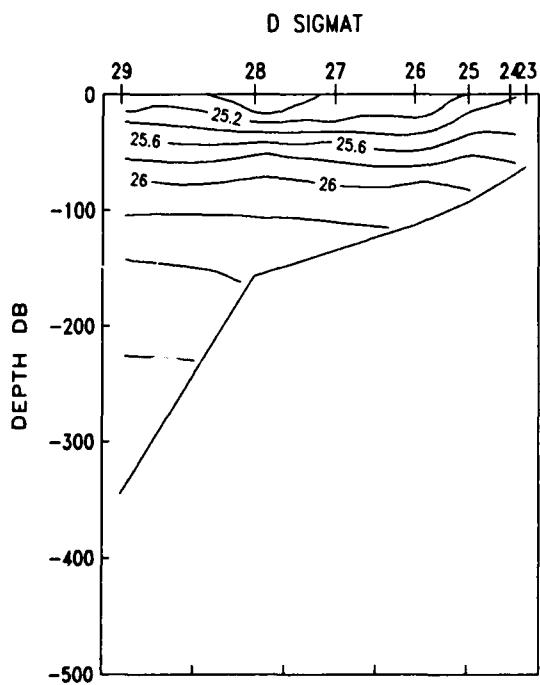
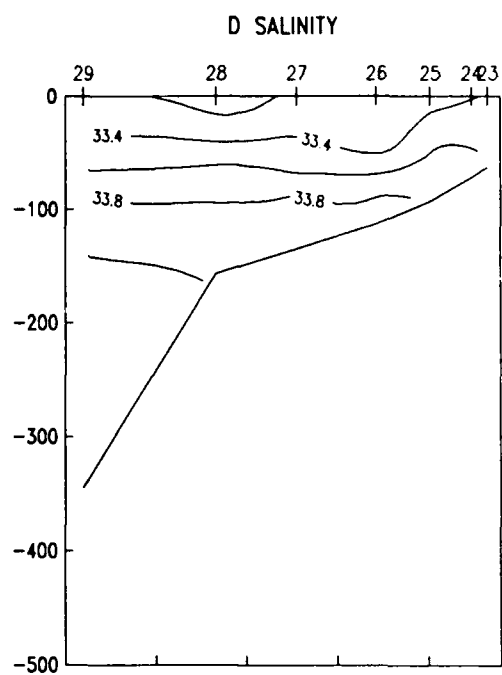
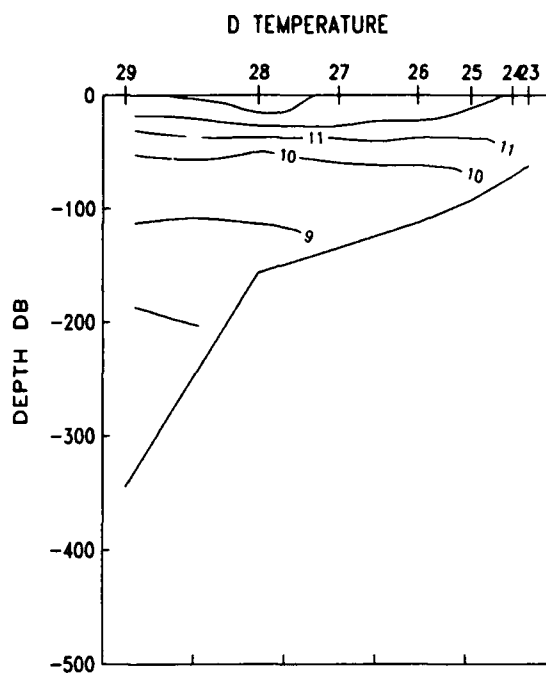
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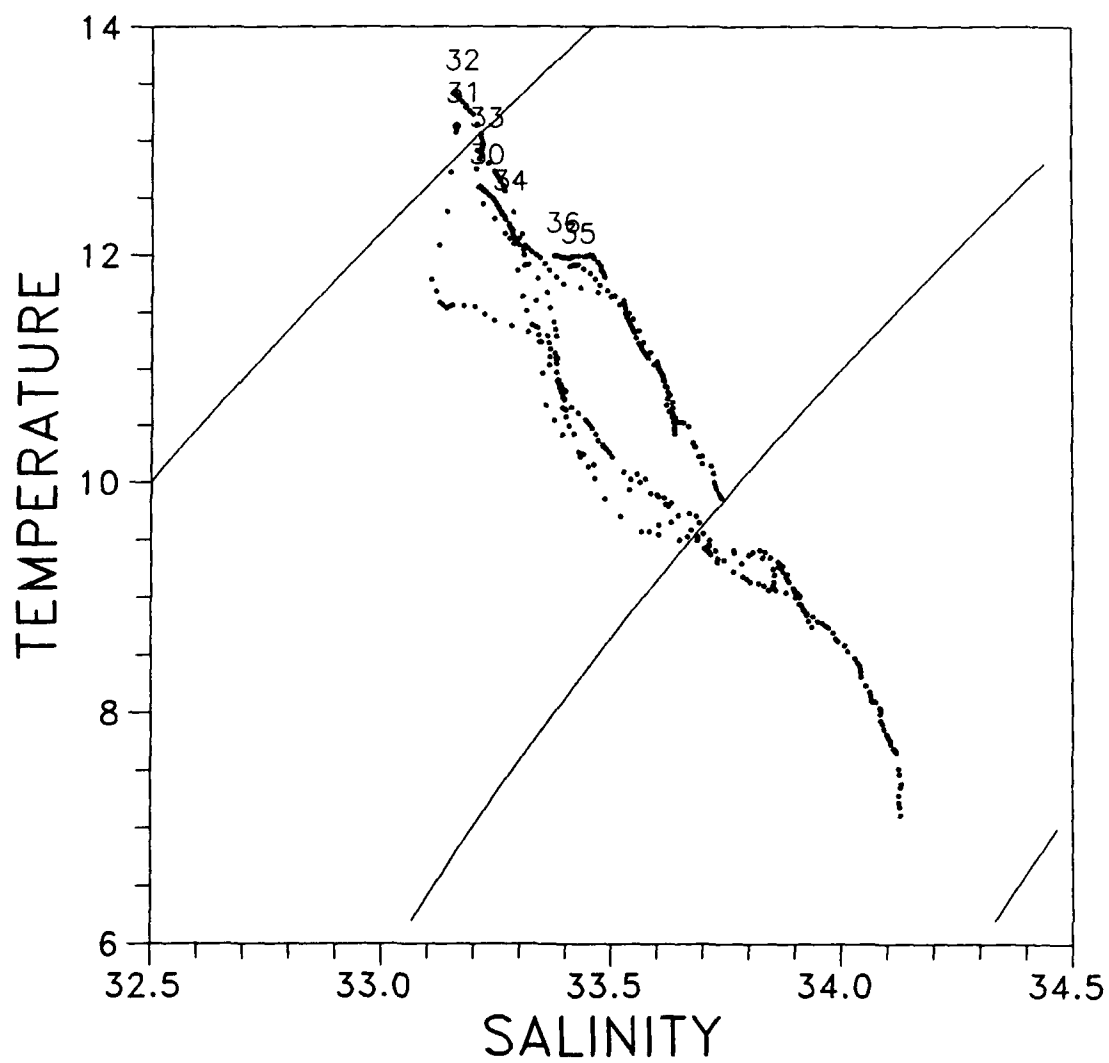


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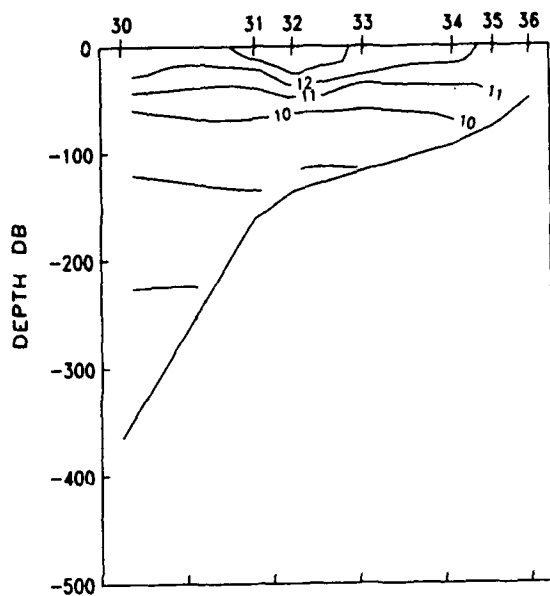




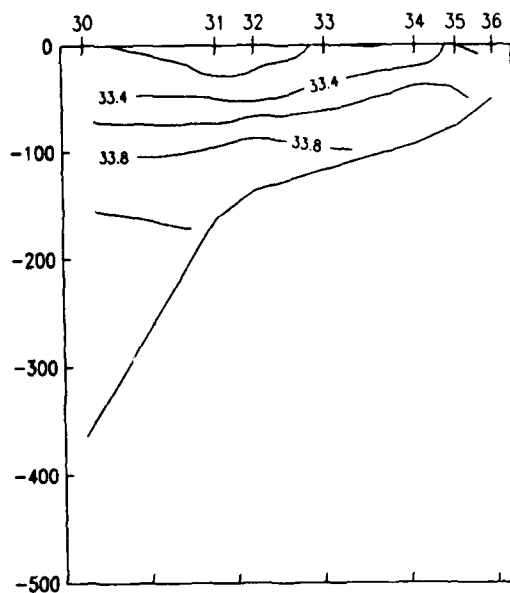




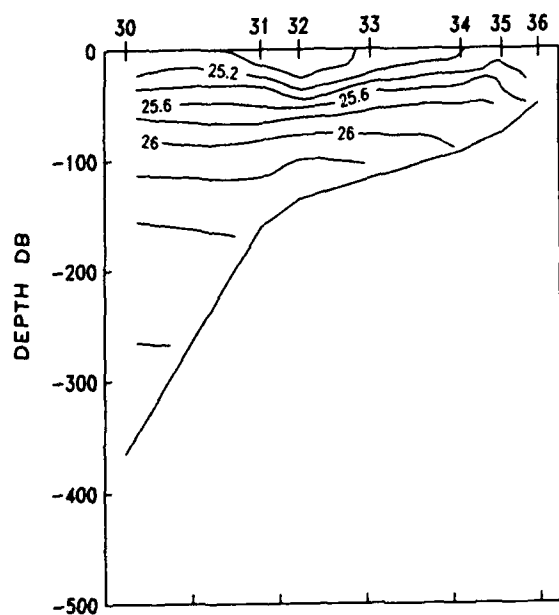
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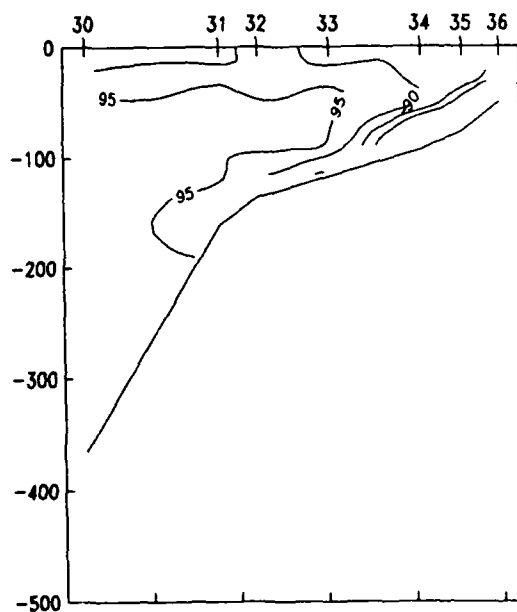
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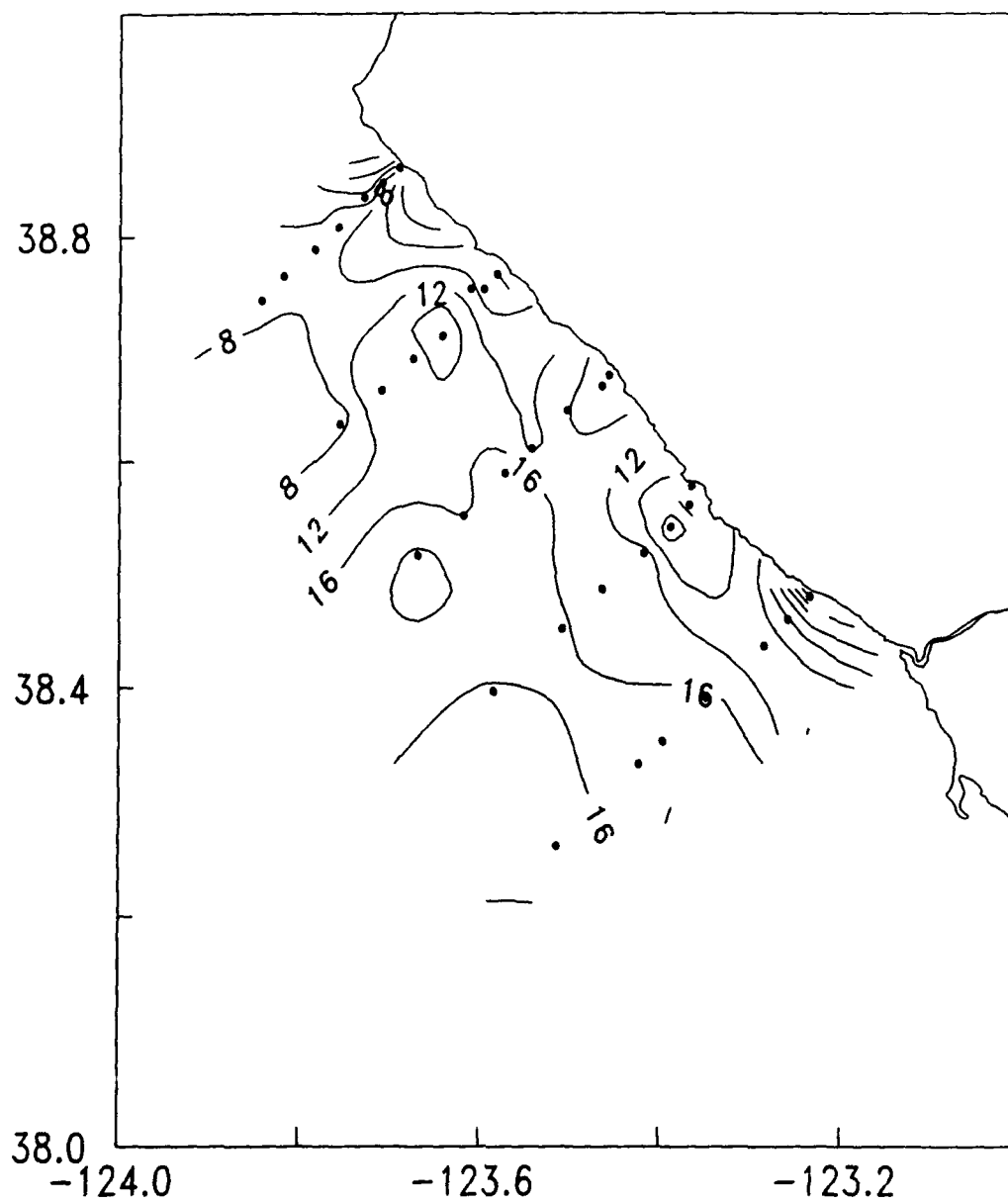
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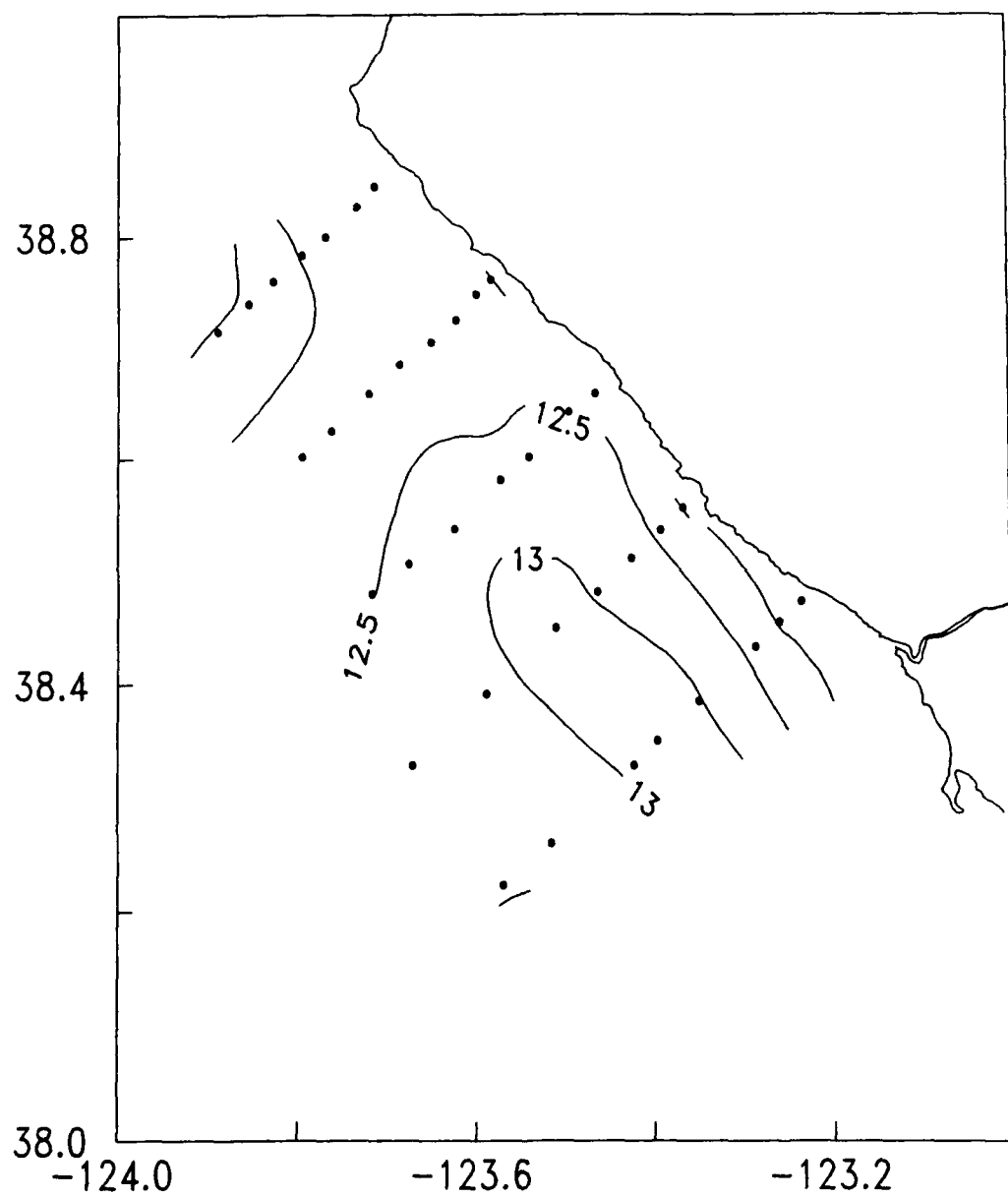
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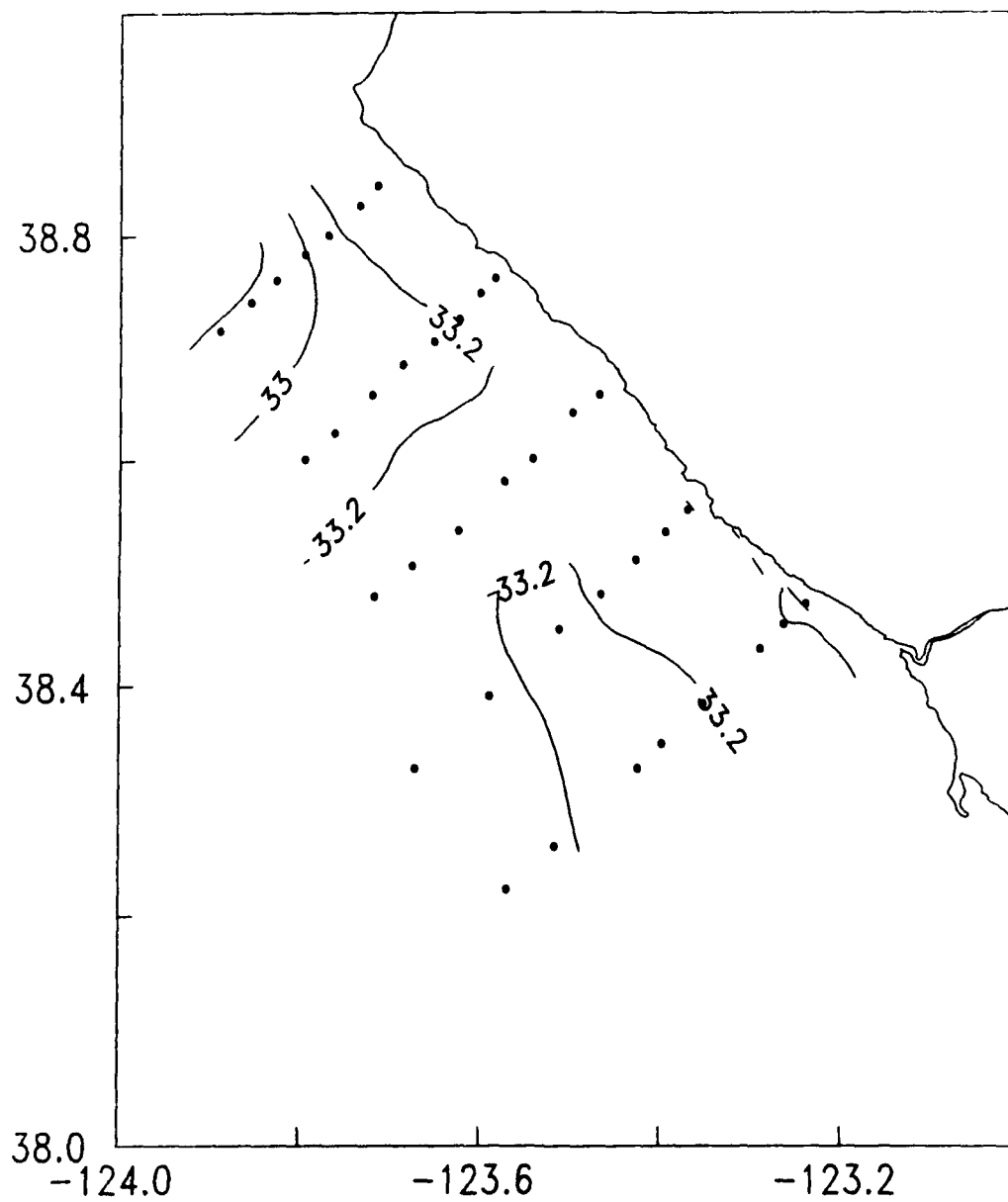
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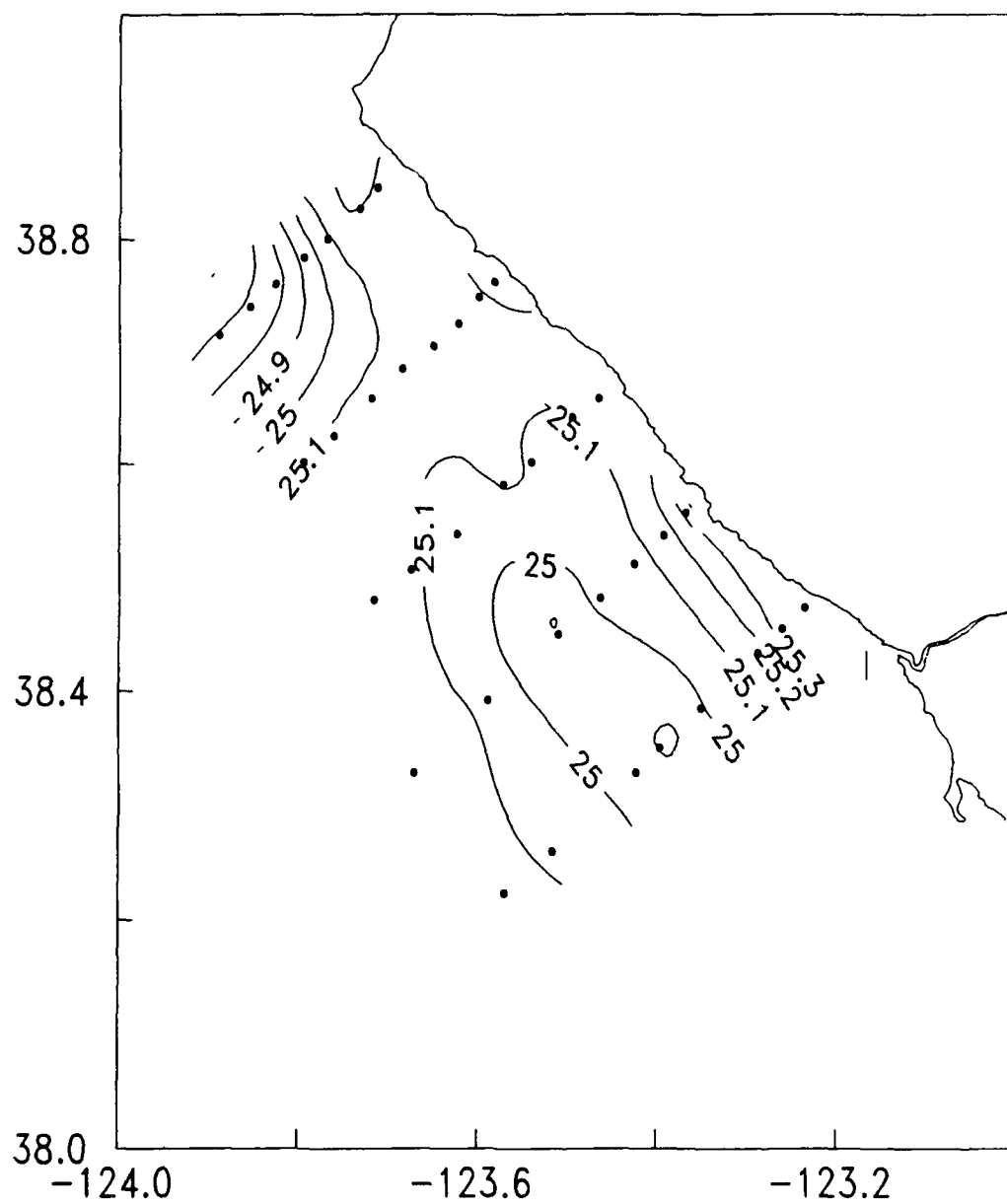


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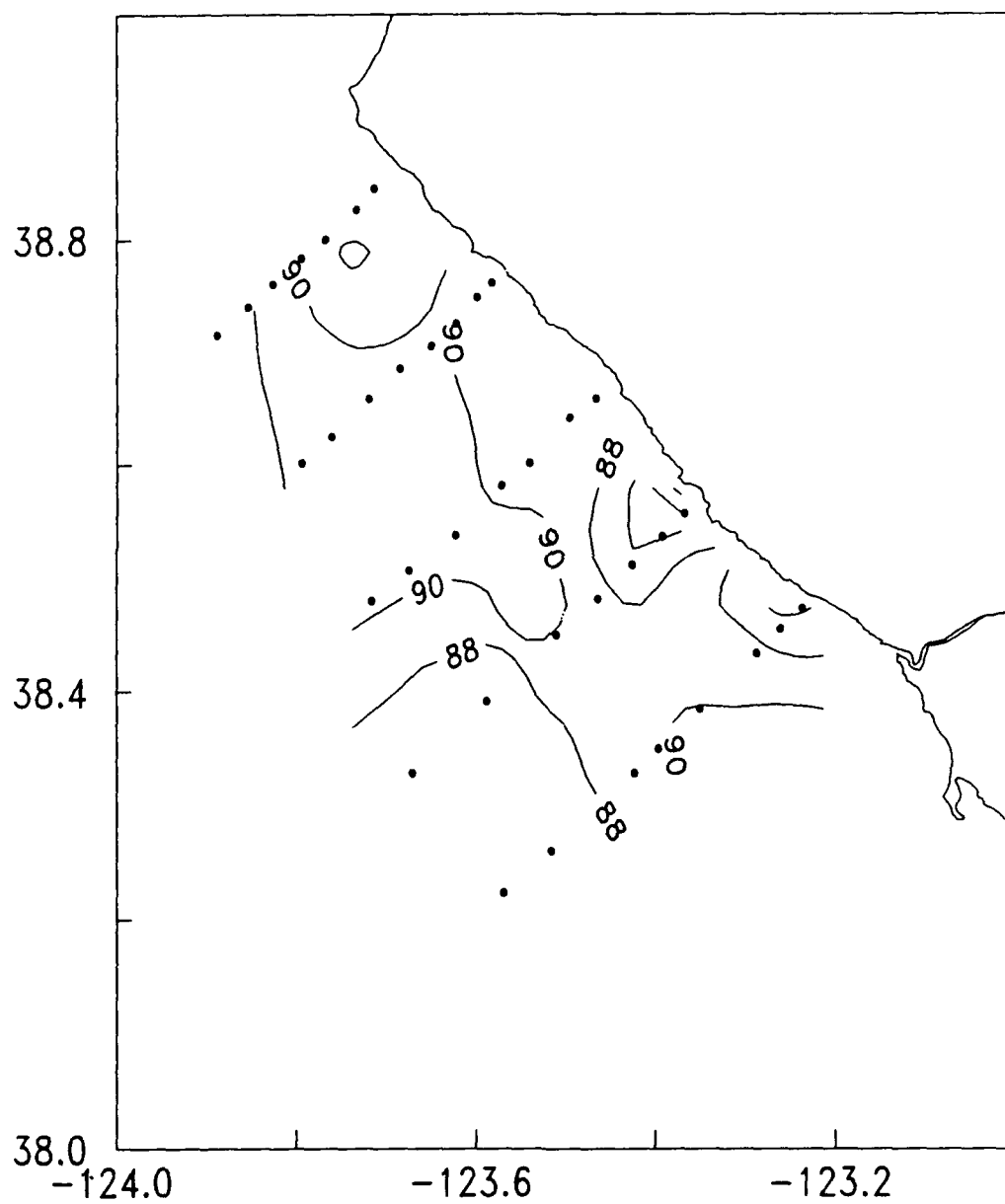




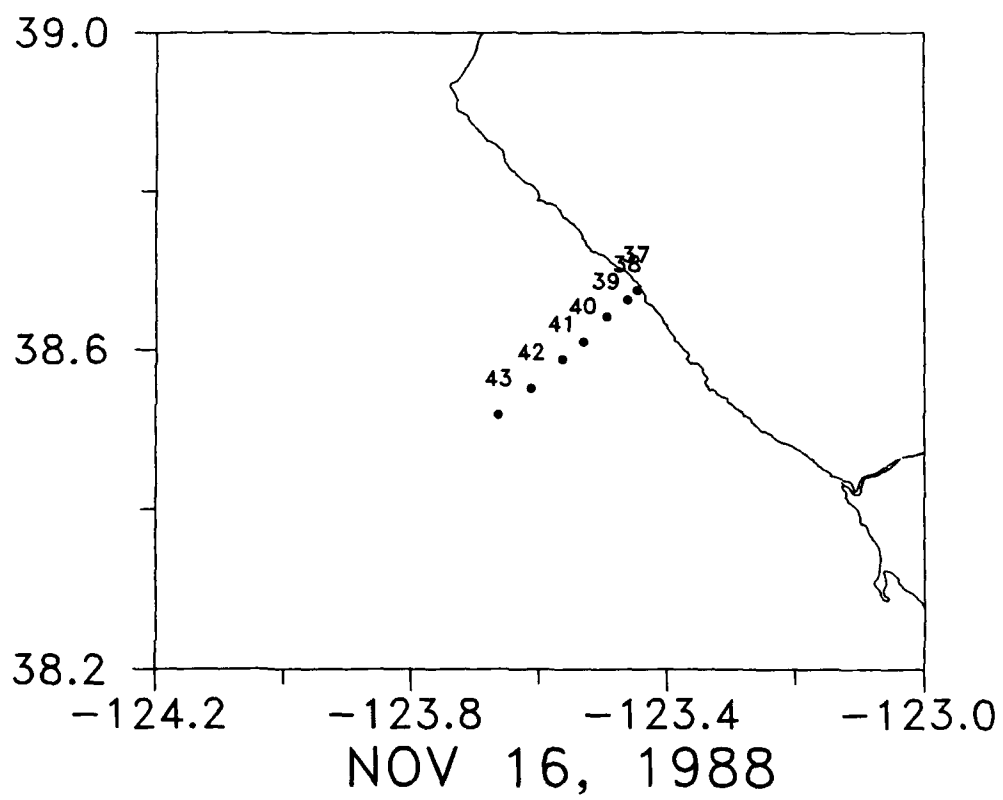
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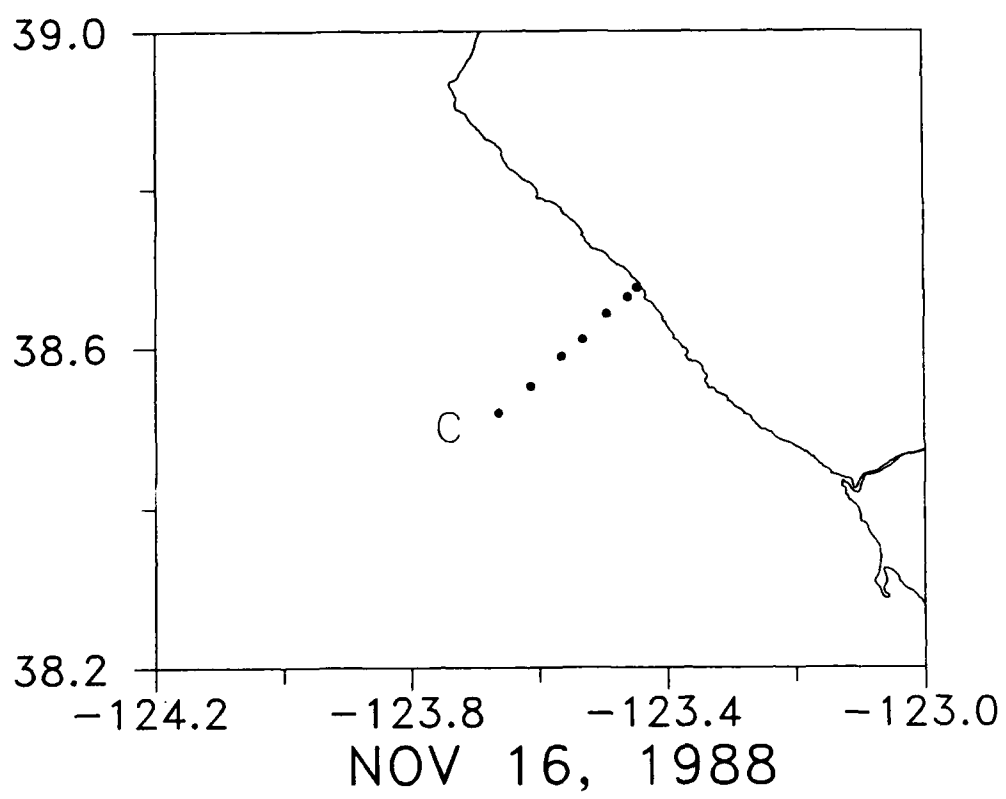


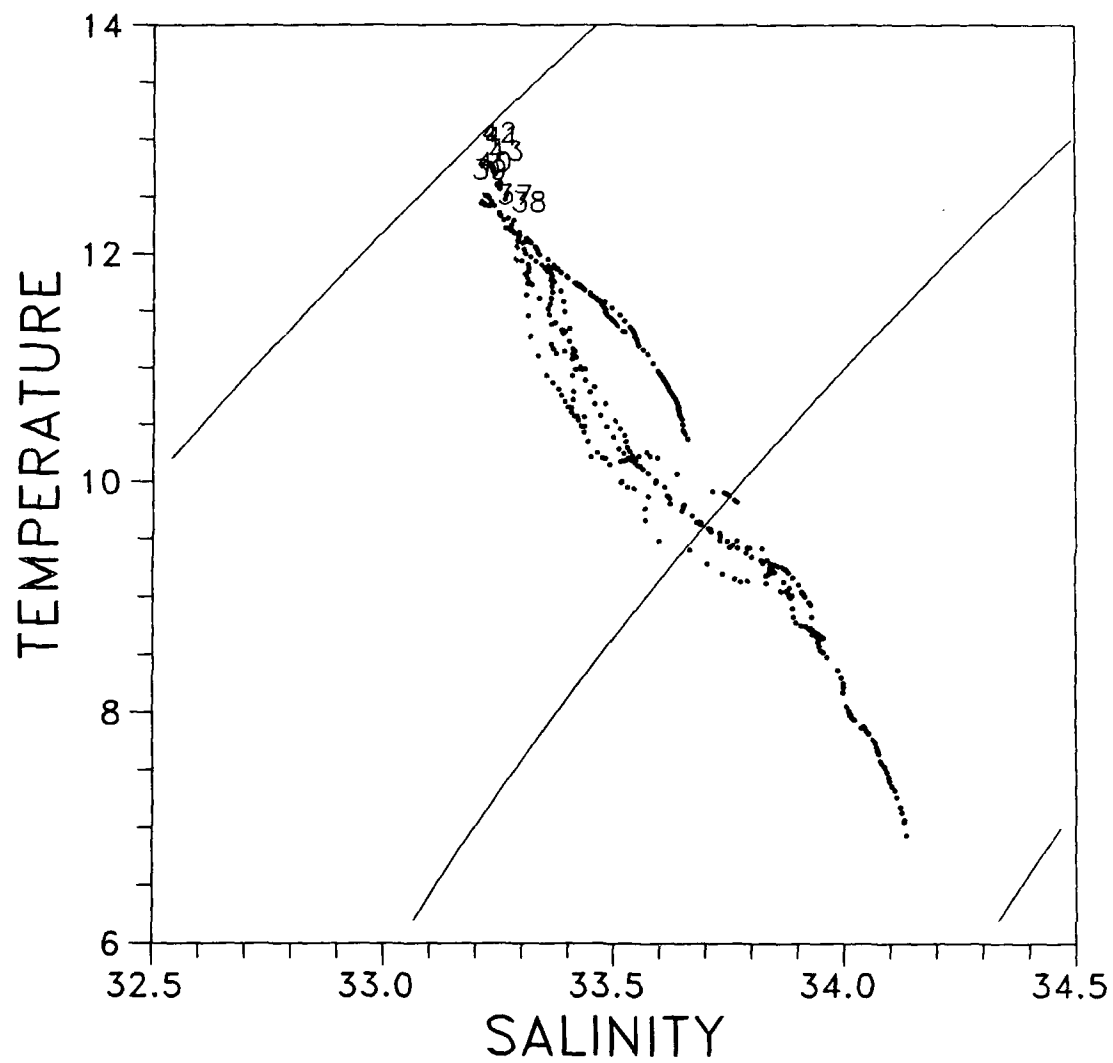
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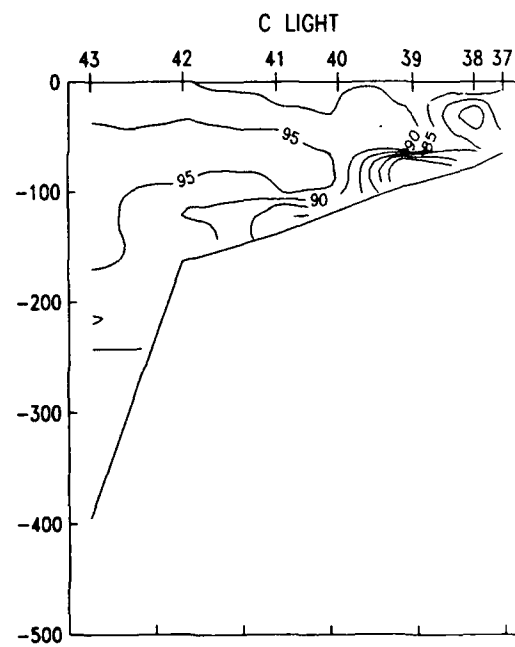
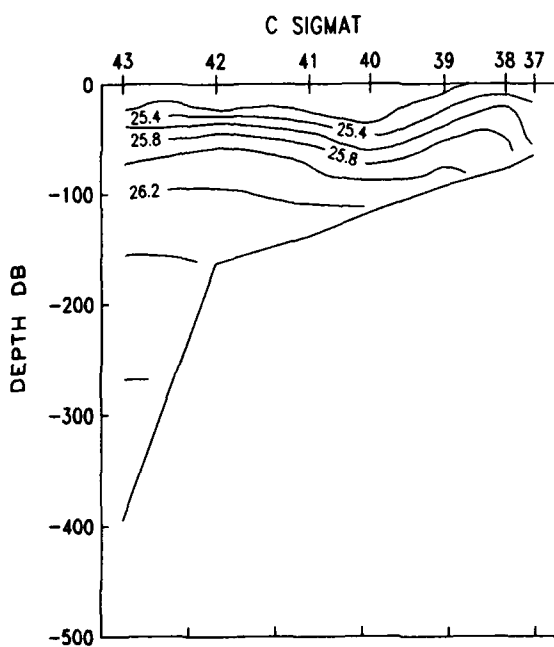
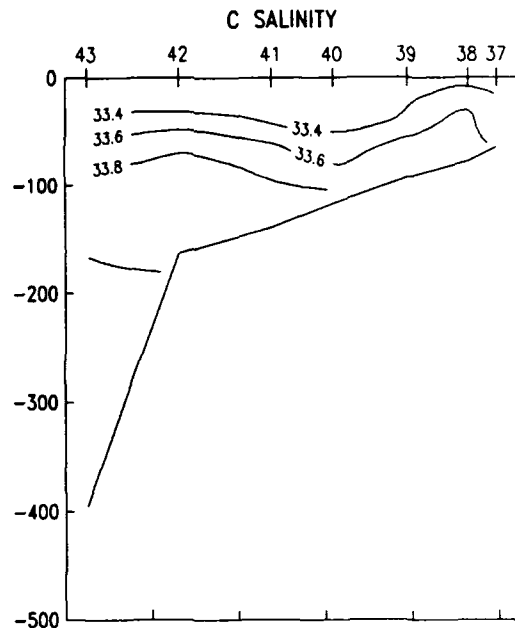
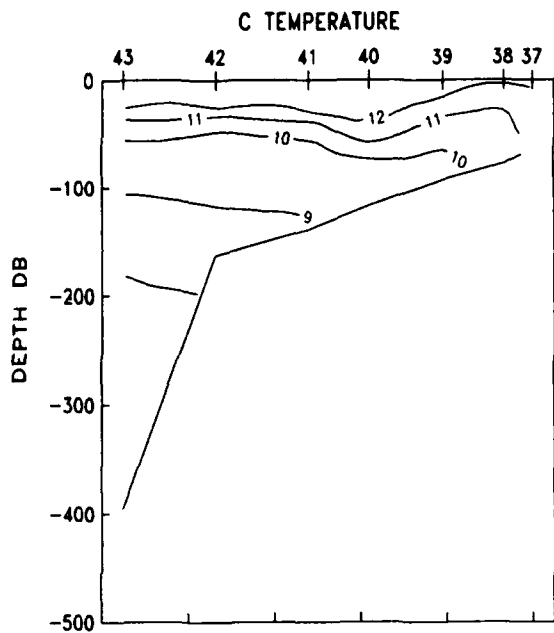


**C. Section C – Nov 16, 1988 – Stations 37 to 43**





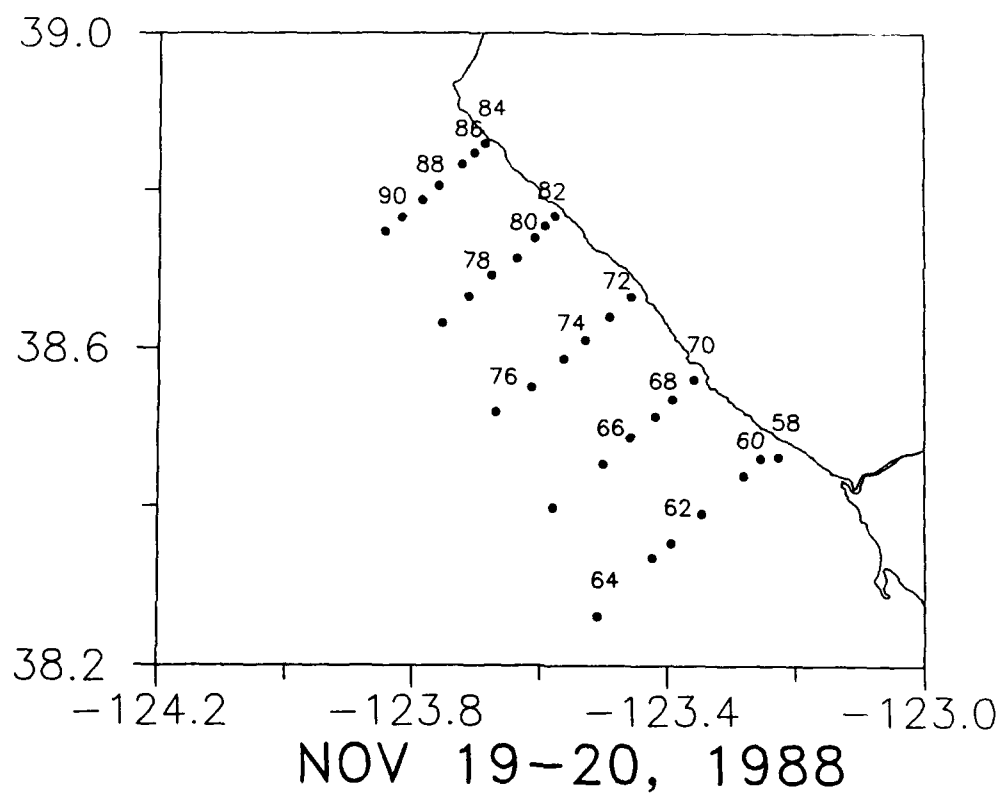


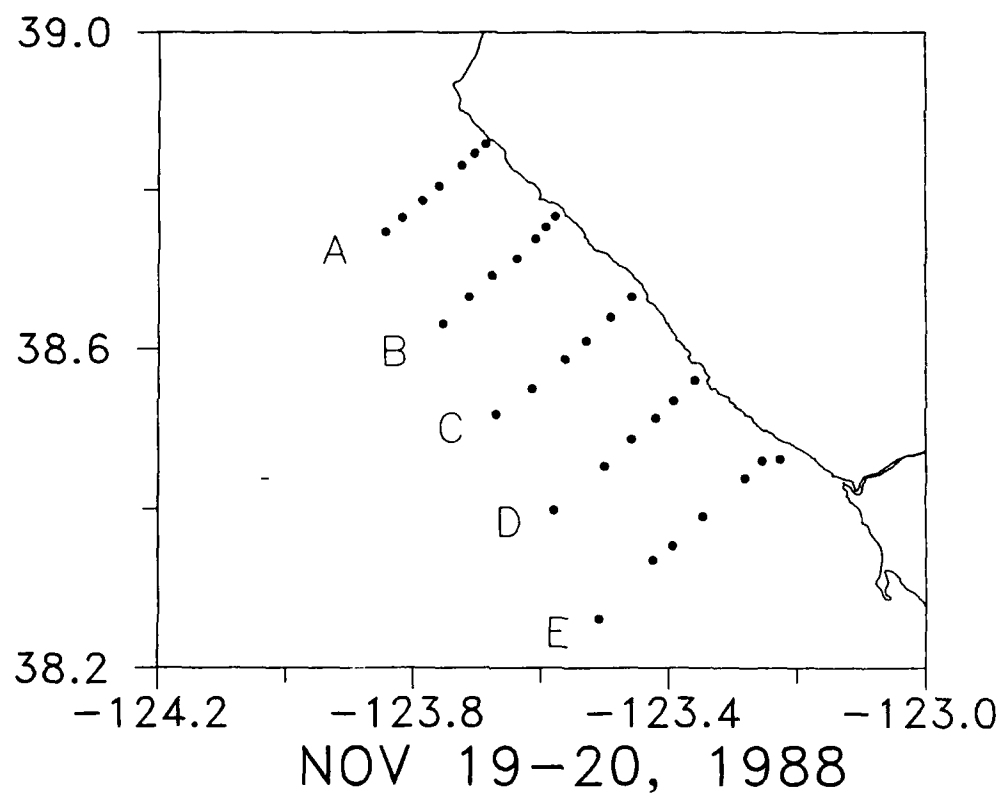


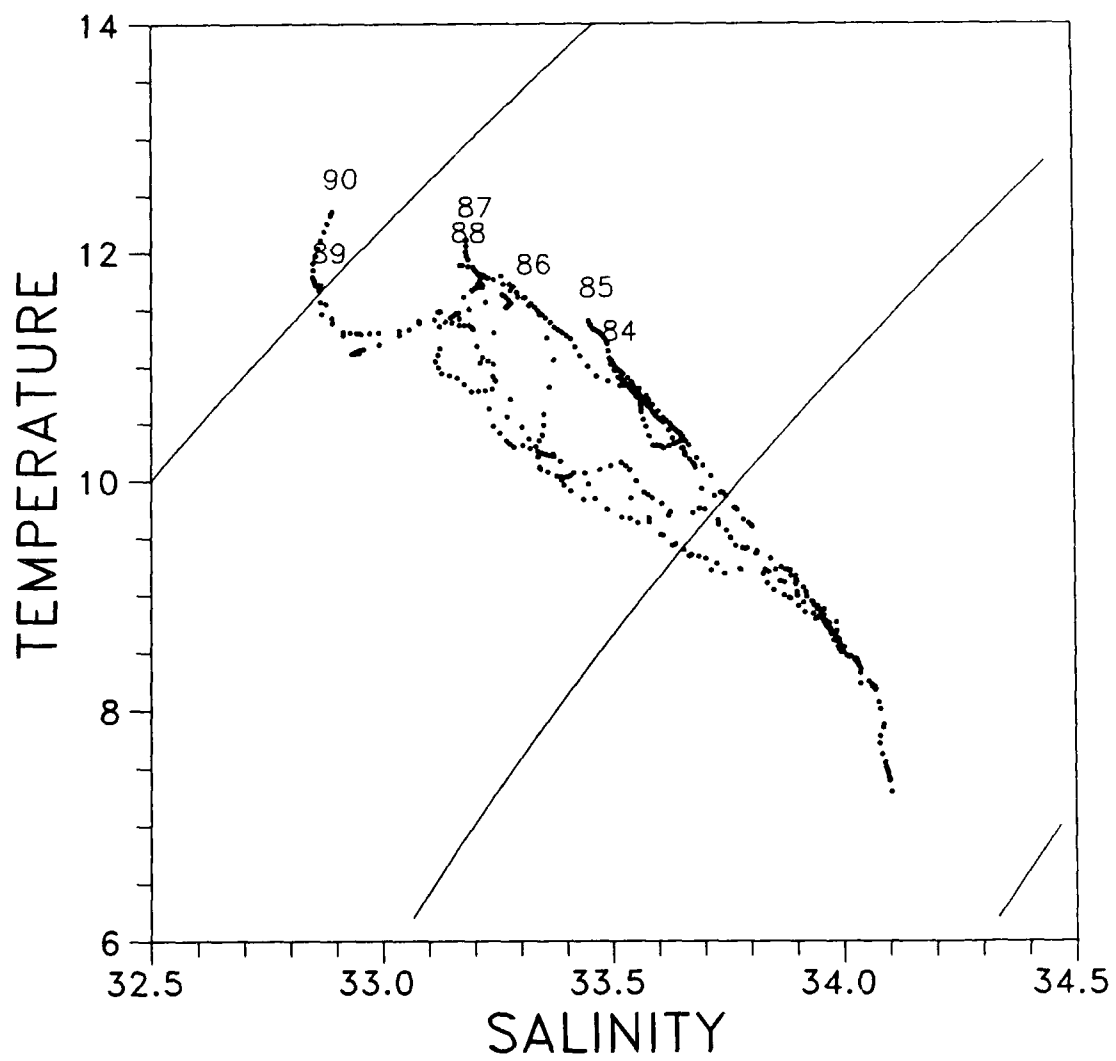


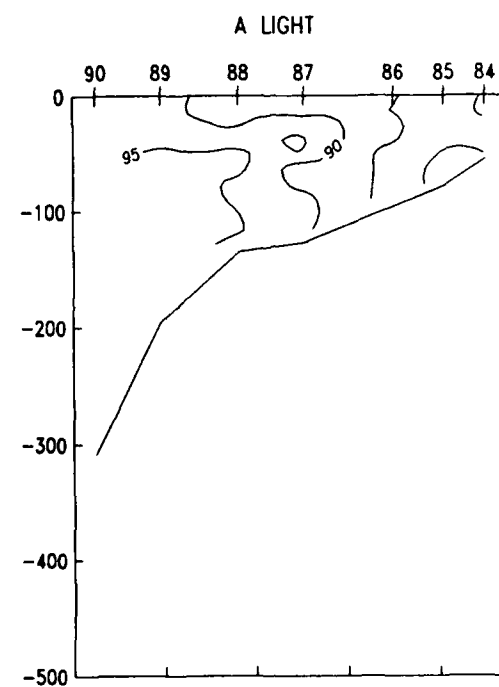
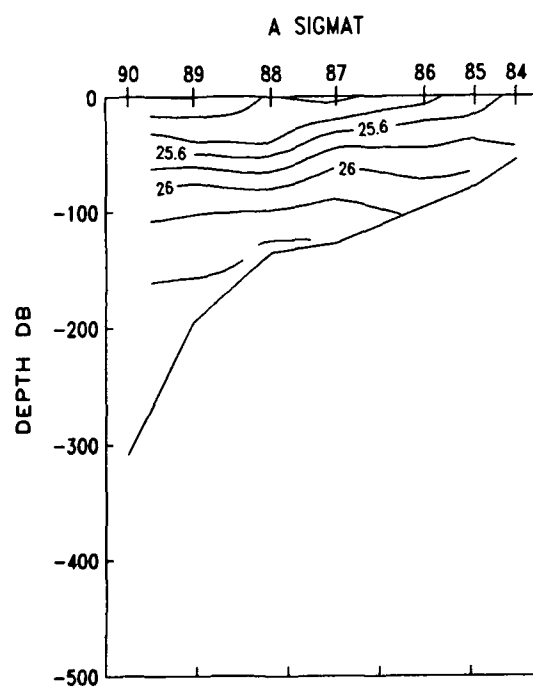
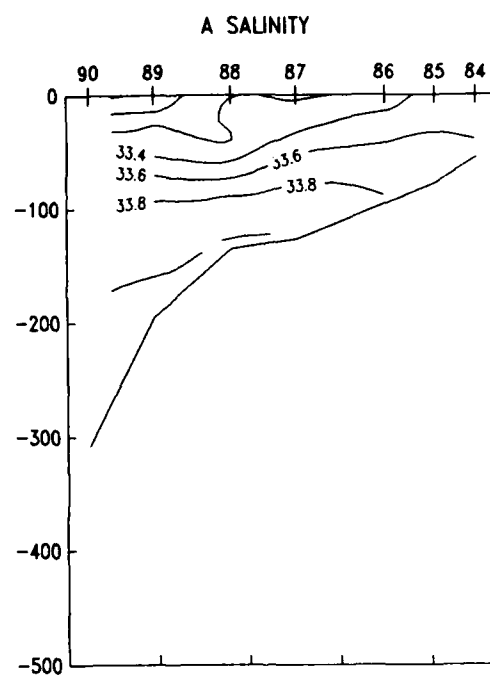
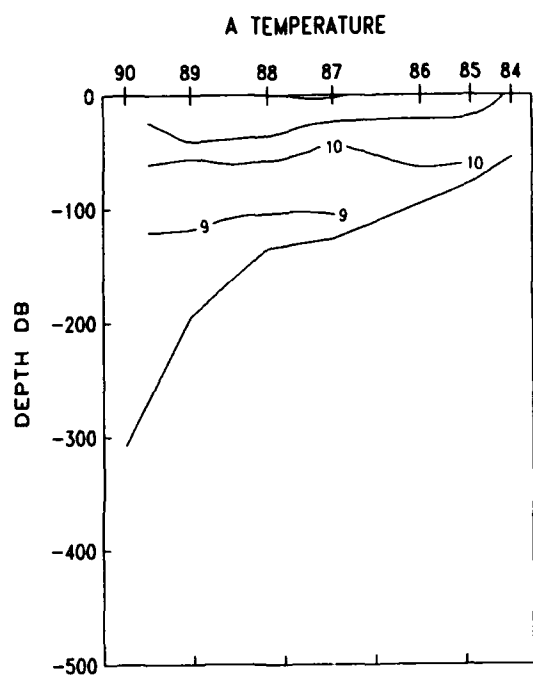


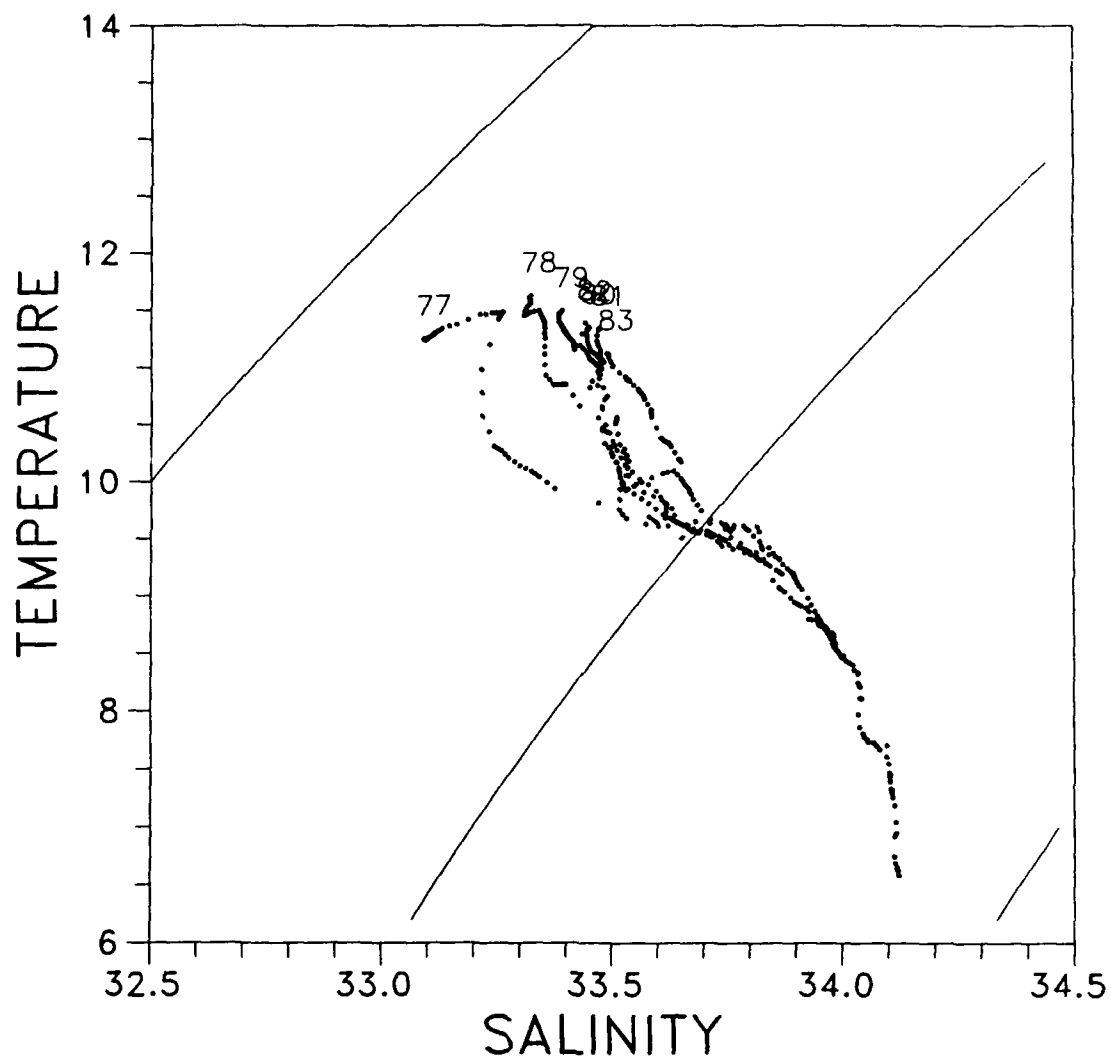
**D. Small-Scale Survey 2 – Nov 19–20, 1988**  
**Stations 58 to 90**

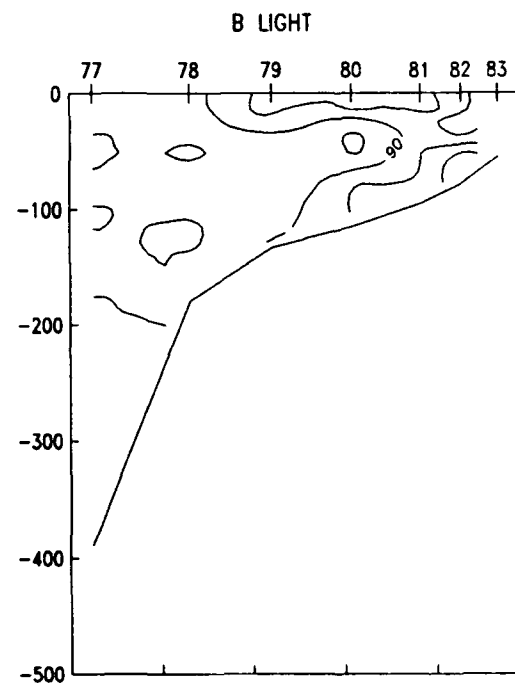
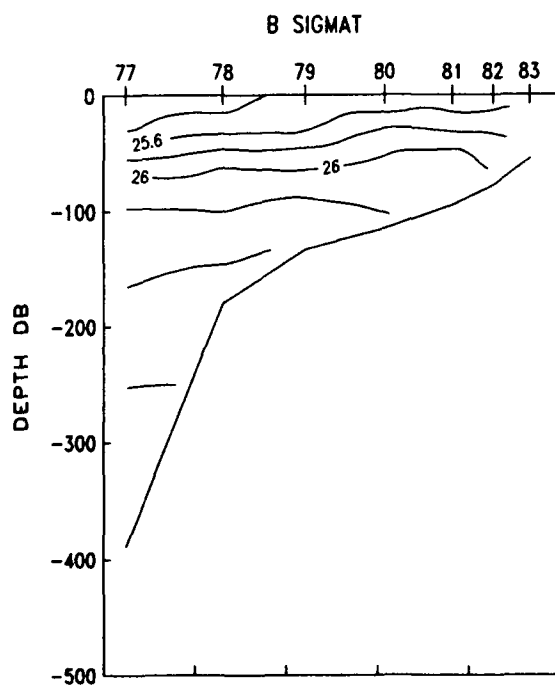
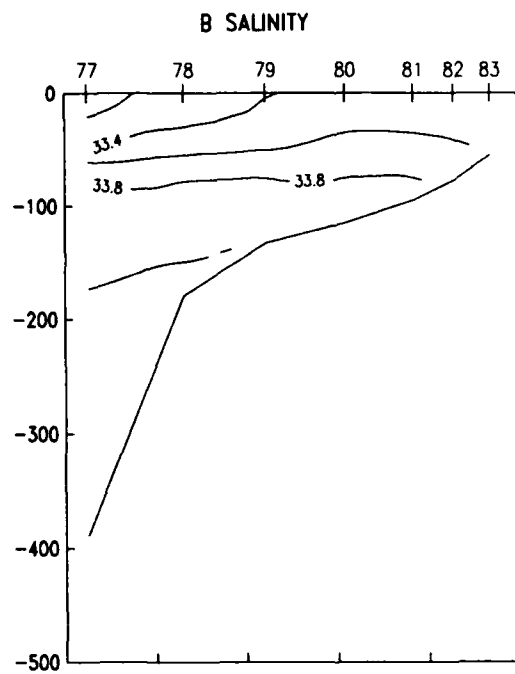
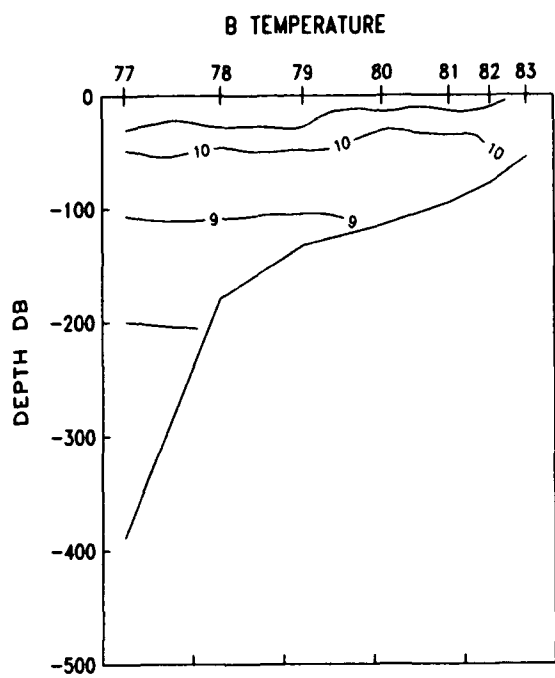


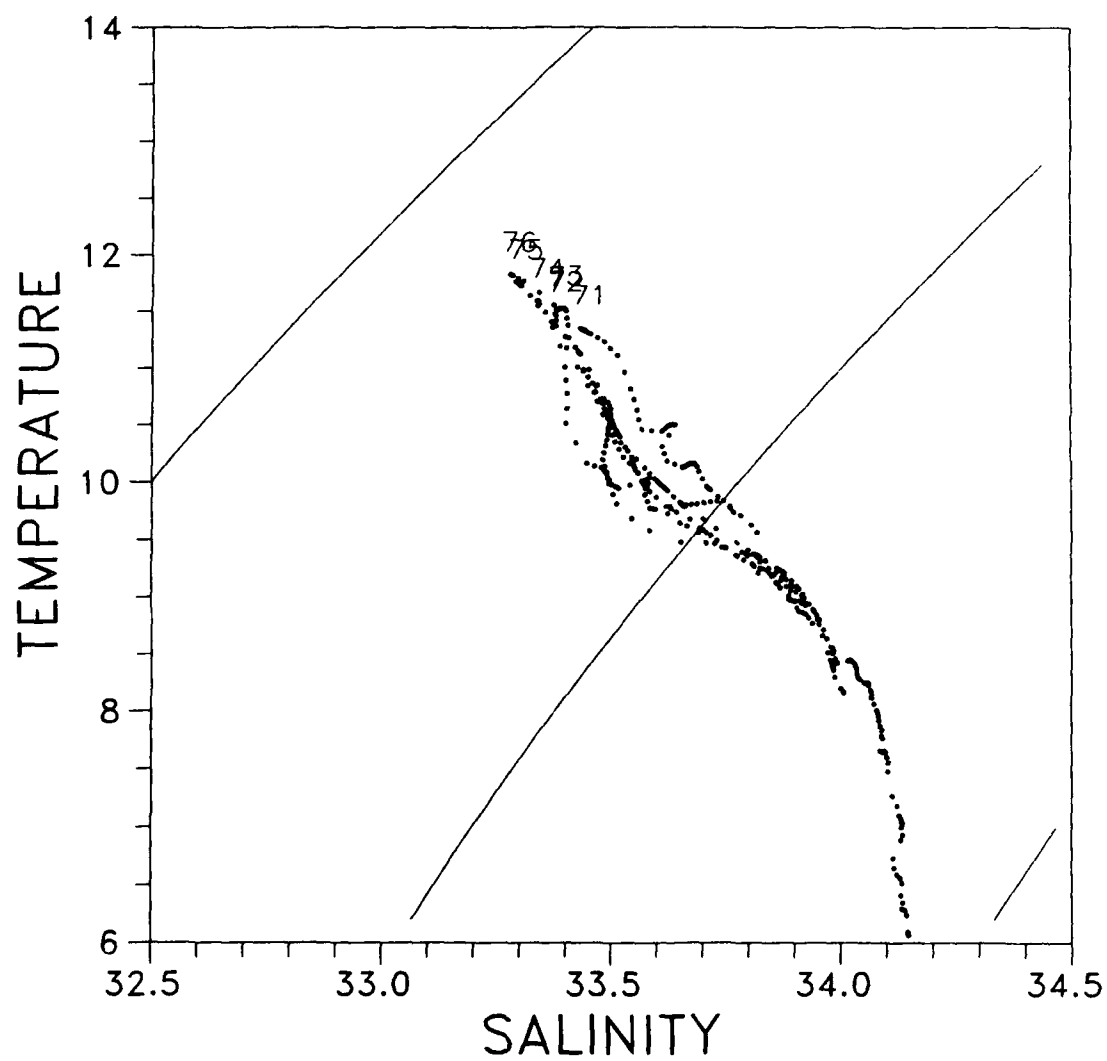




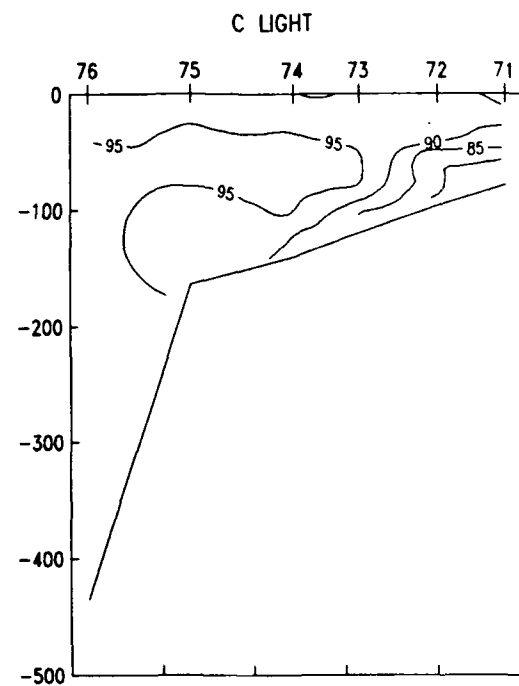
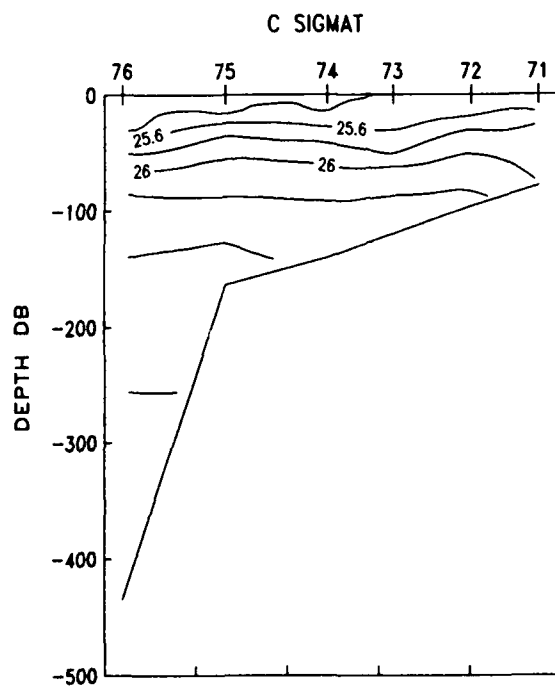
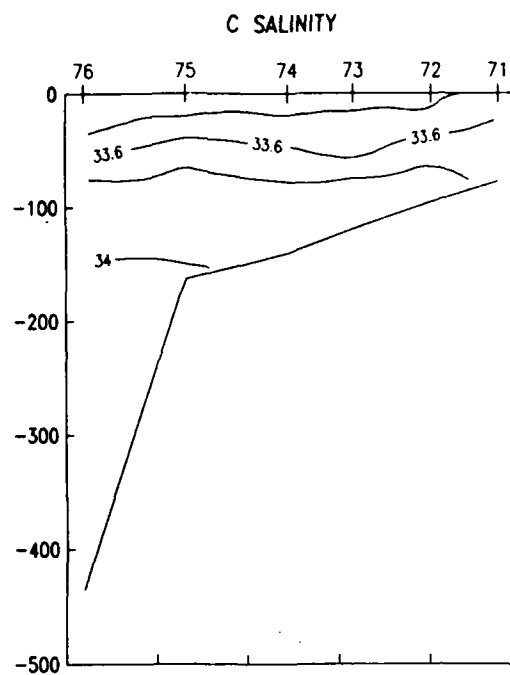
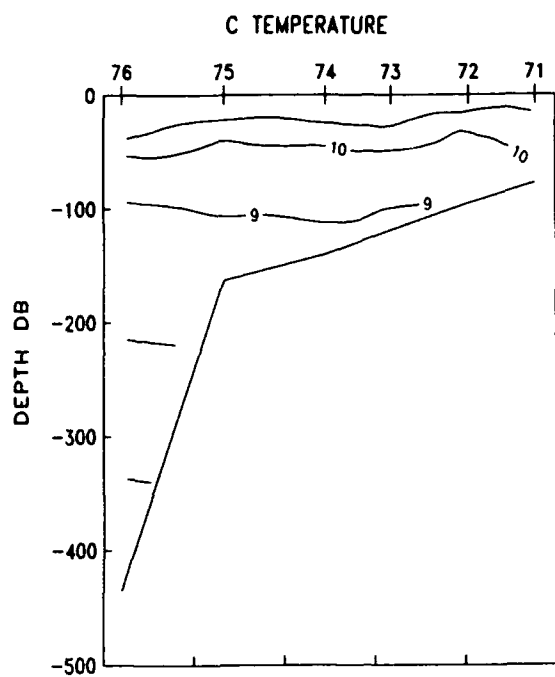


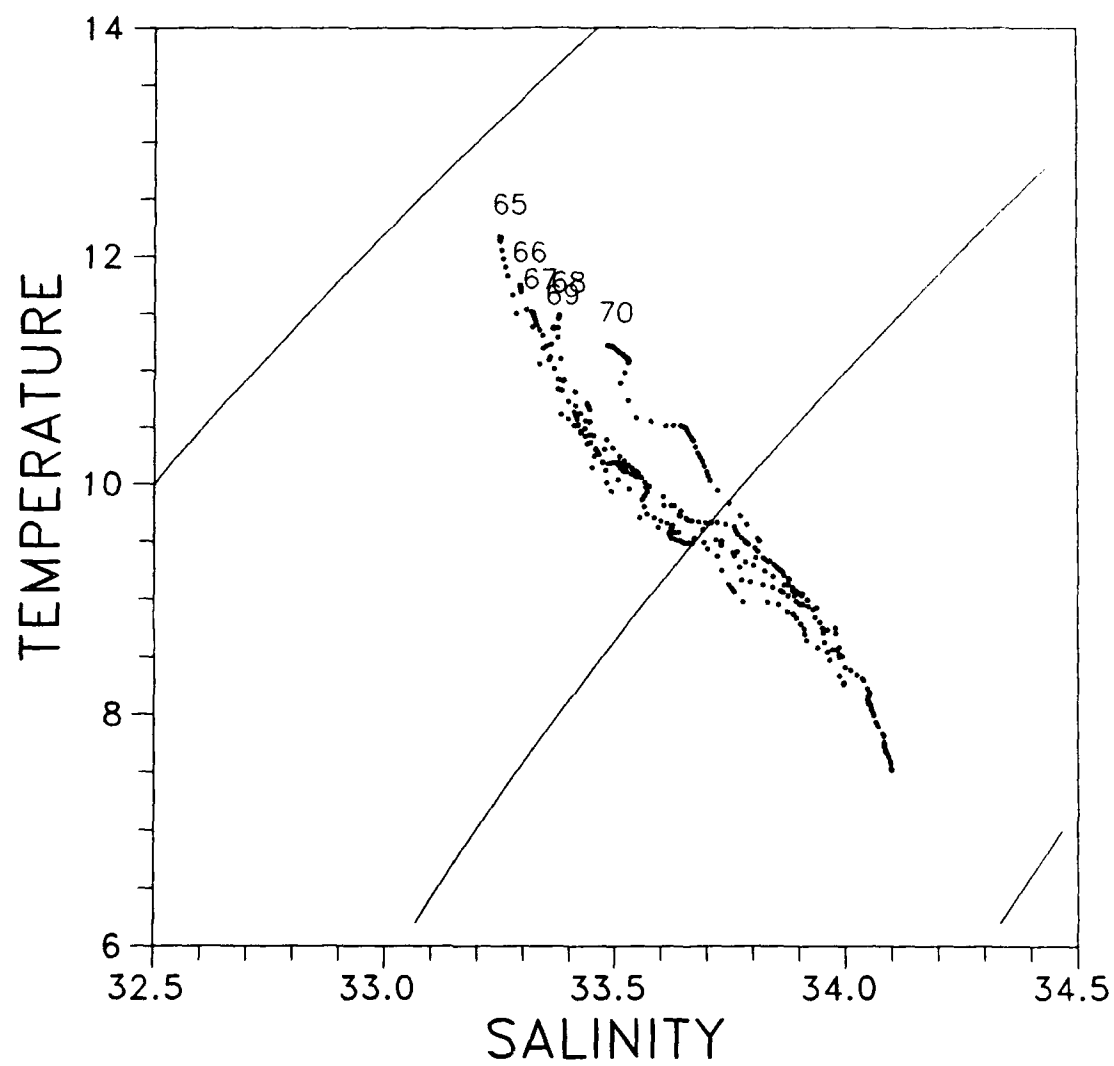


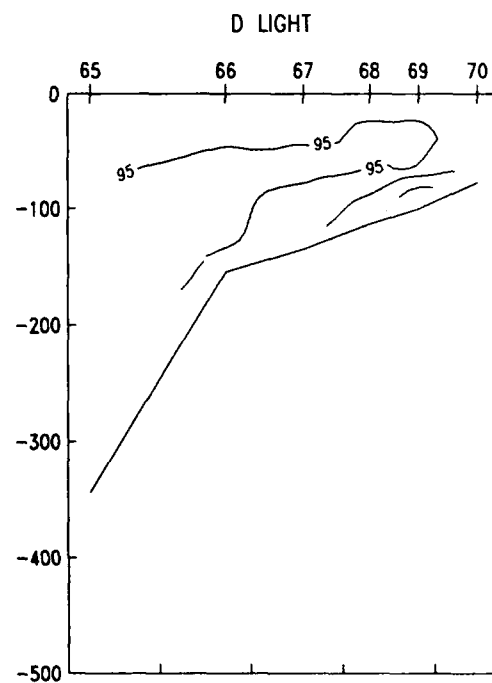
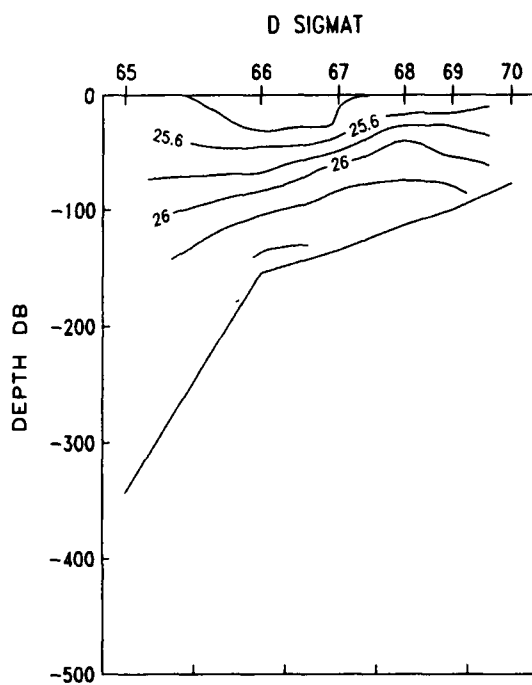
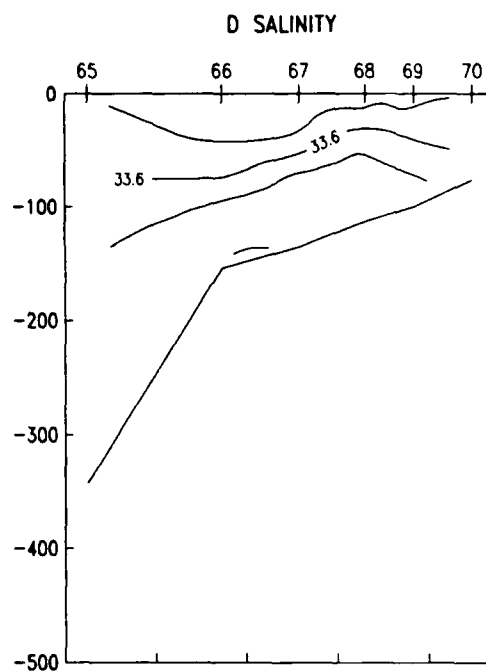
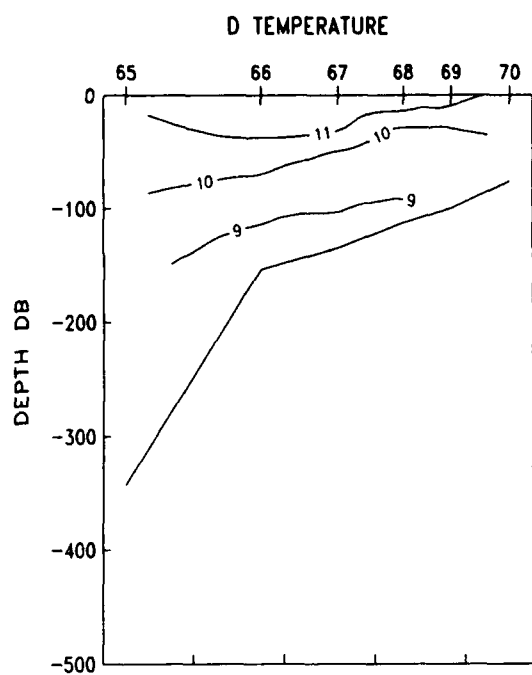


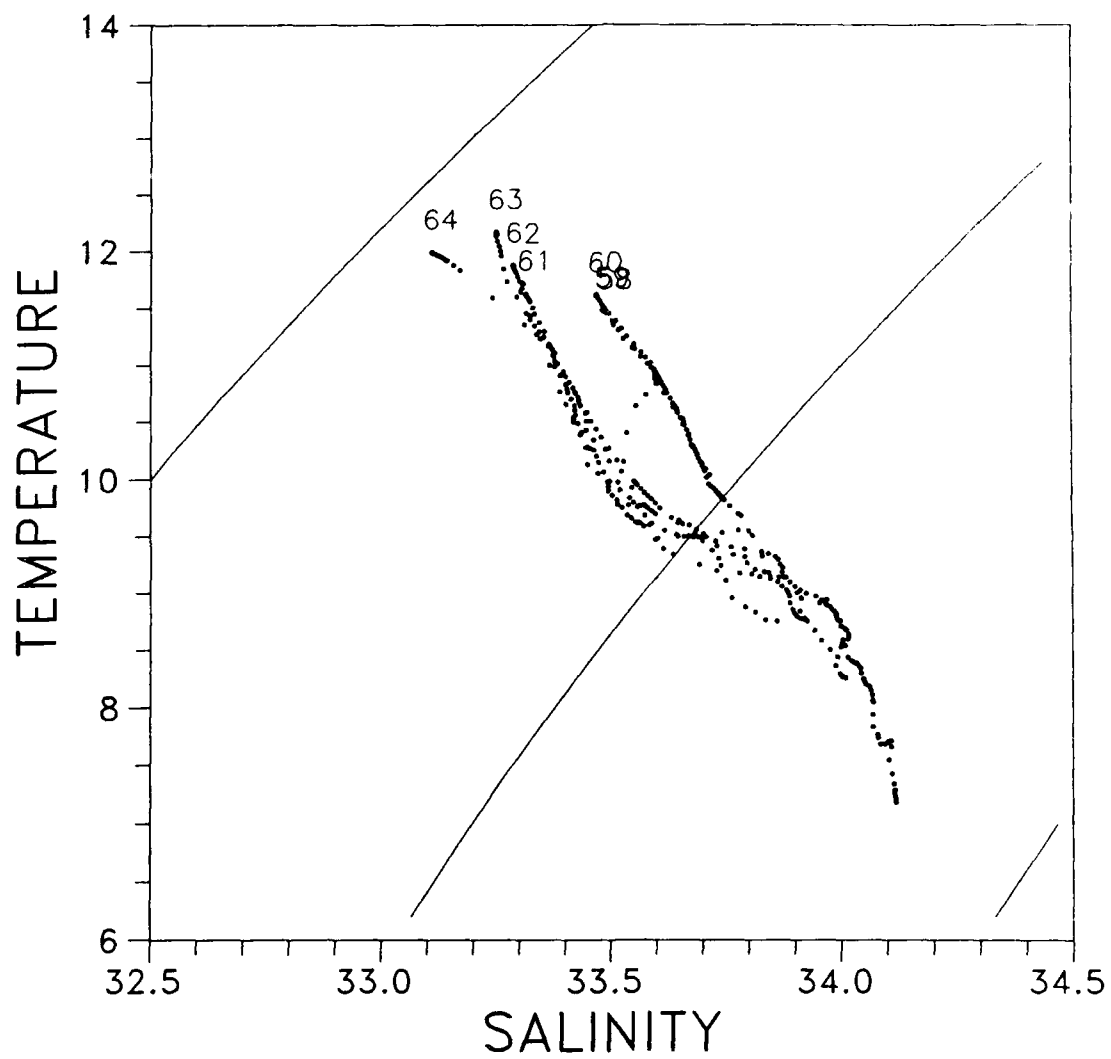


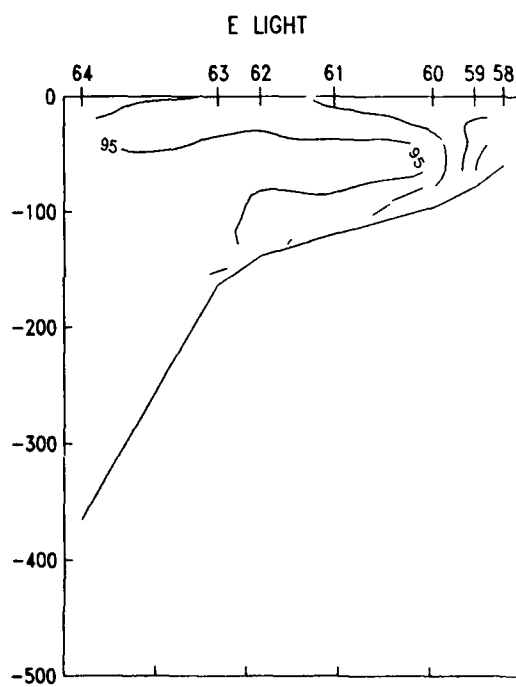
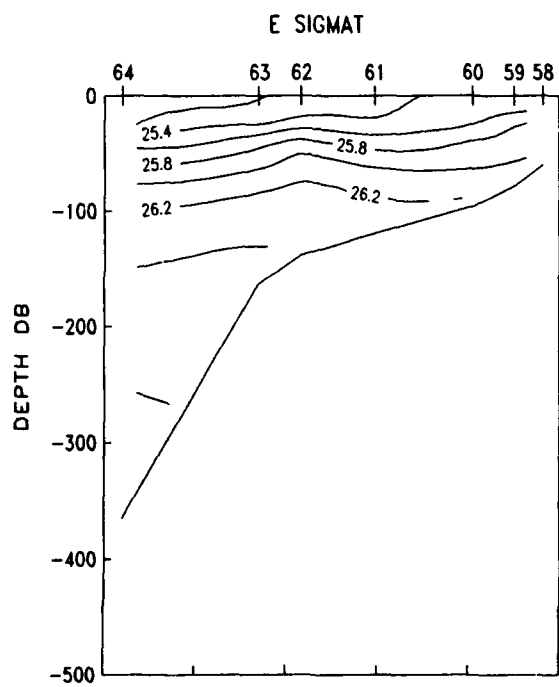
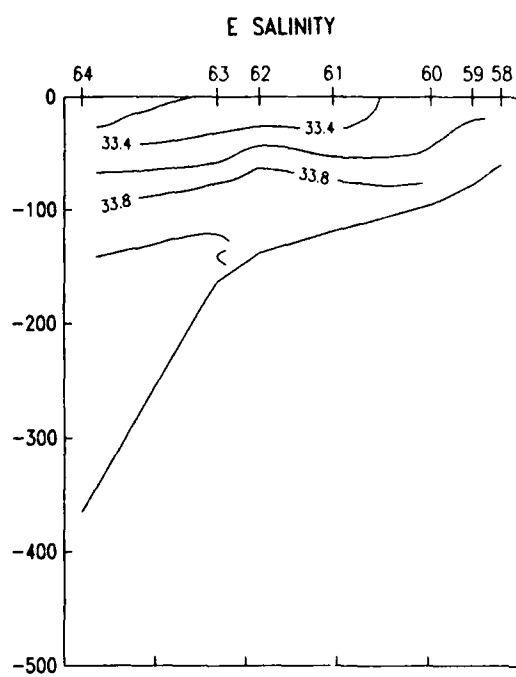
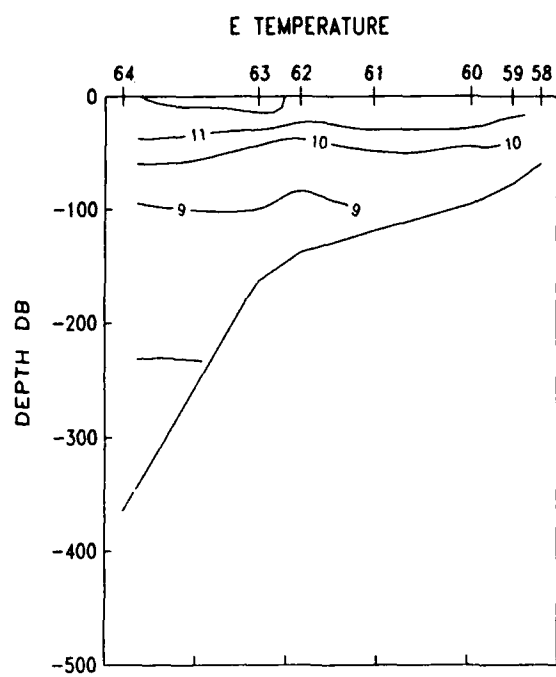




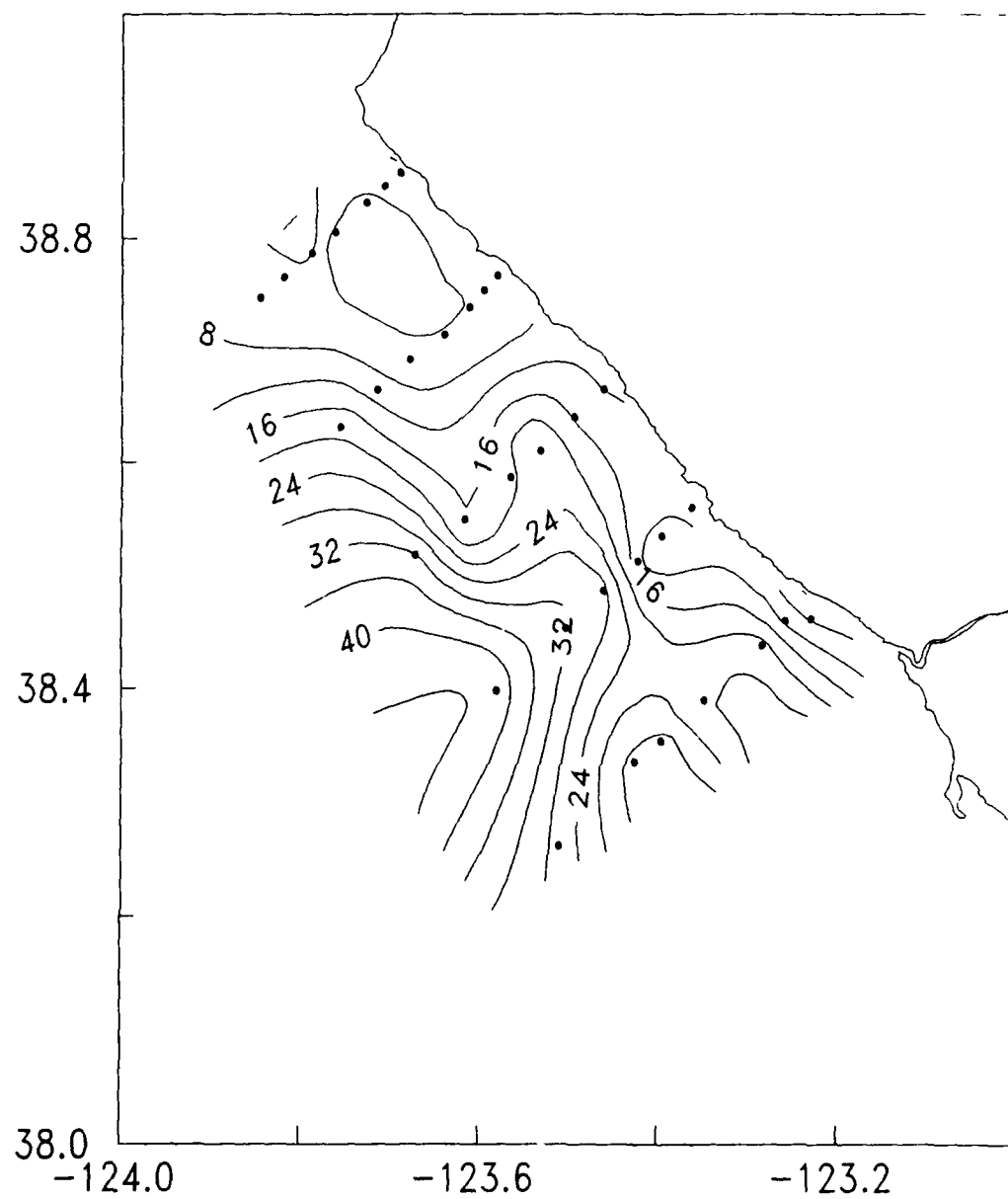




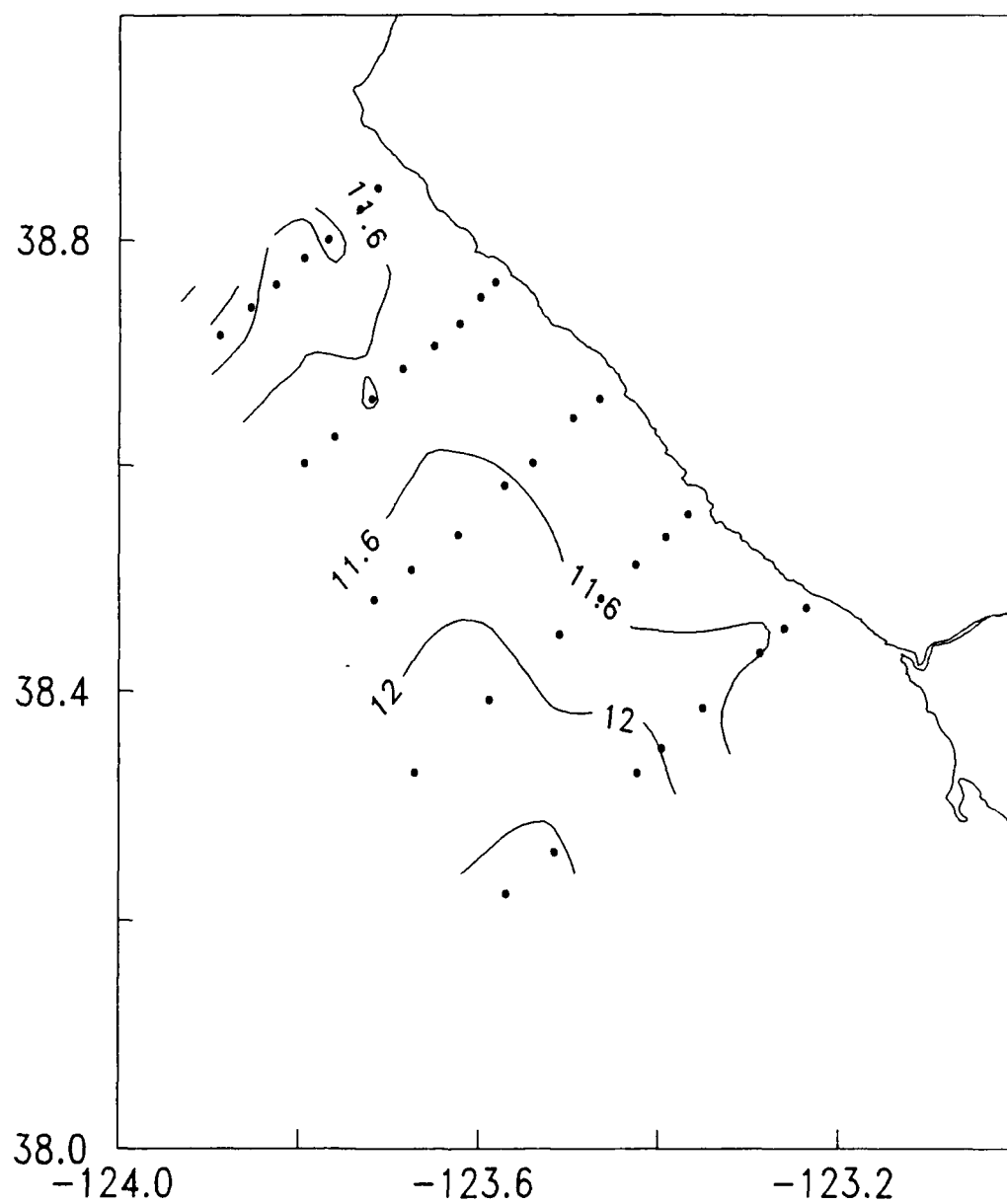




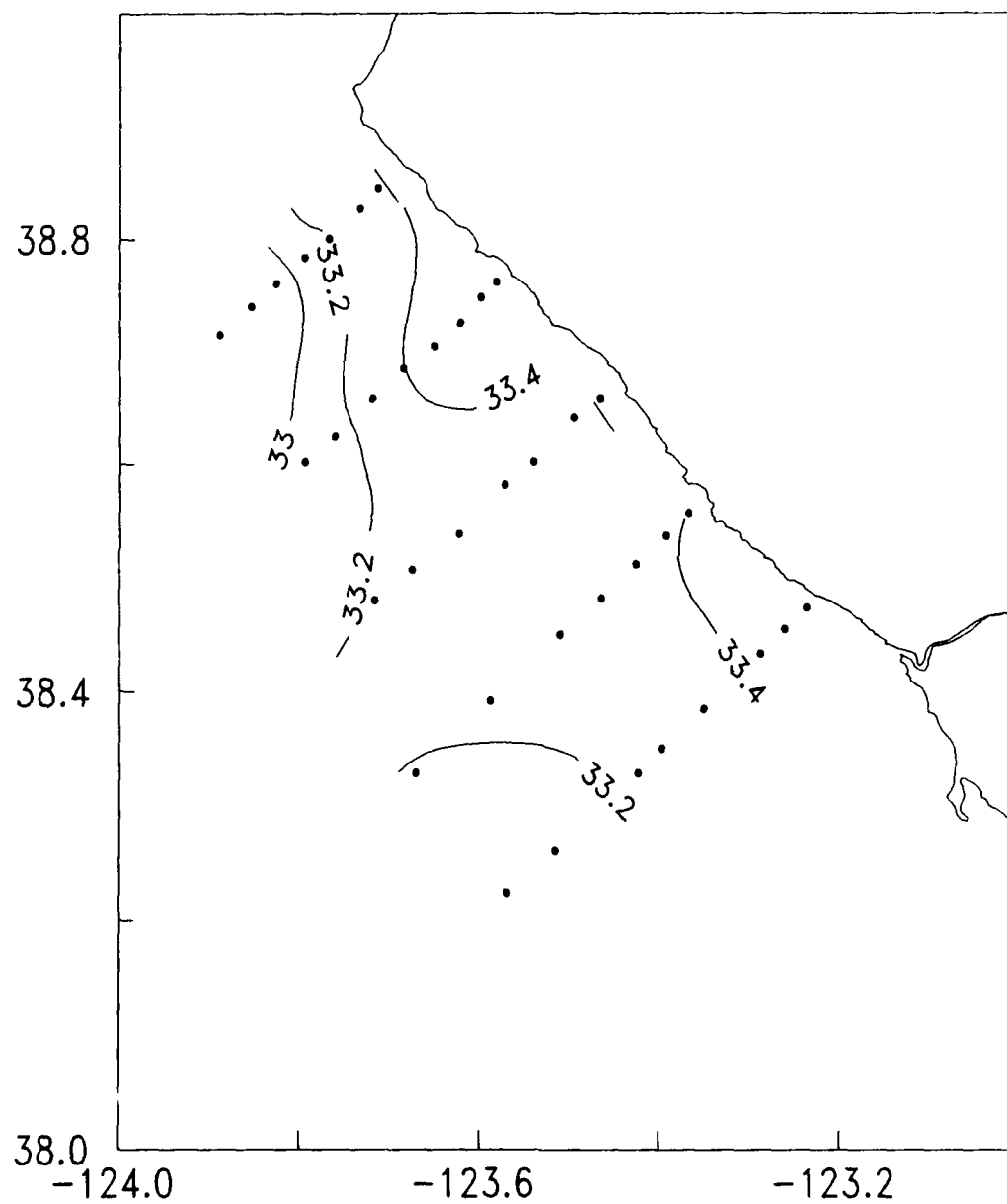
SURFACE MIXED LAYER DEPTH M NOV 19-20, 1988



SURFACE TEMP NOV 19-20 1988

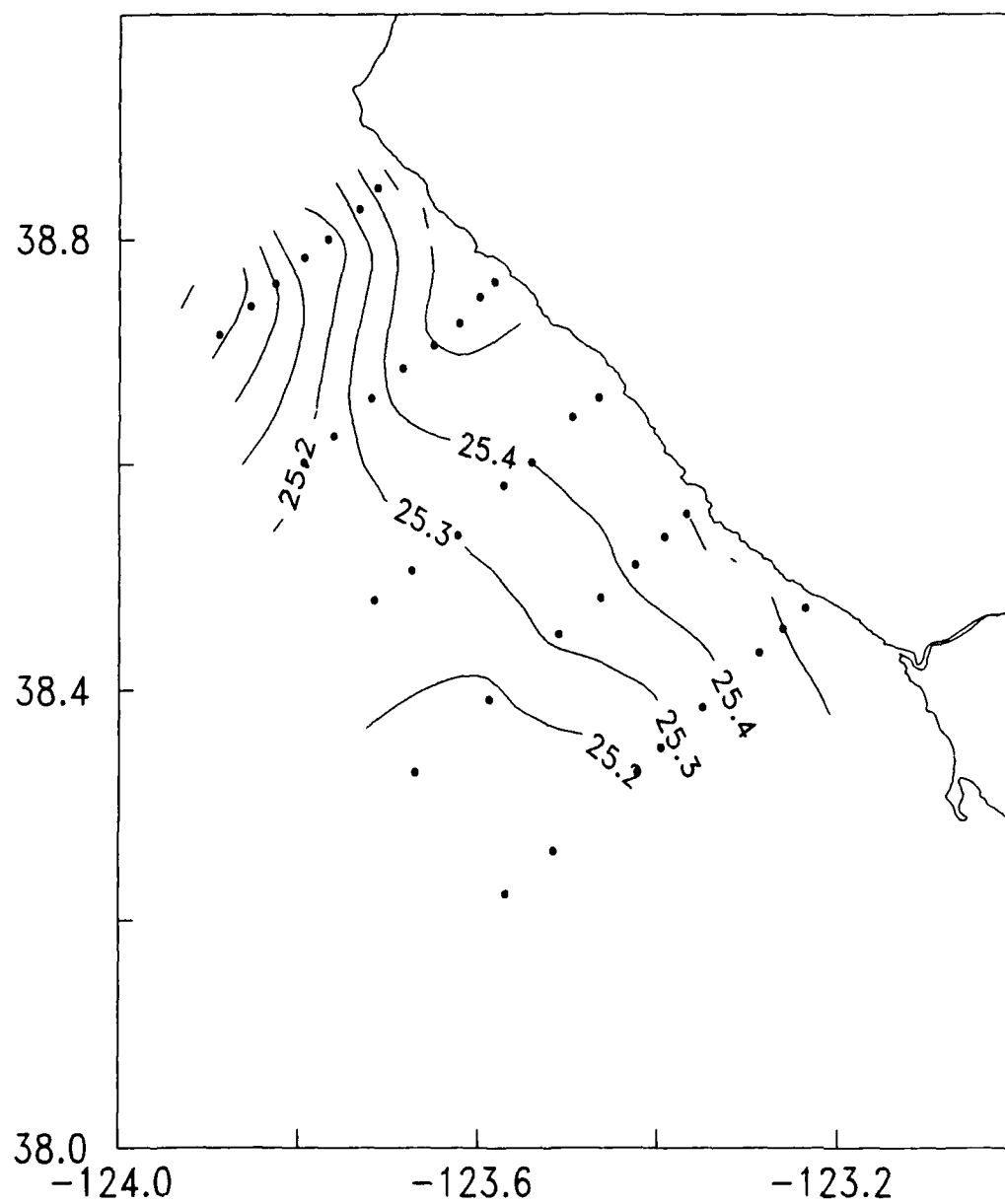


# SURFACE SALT NOV 19-20 1988

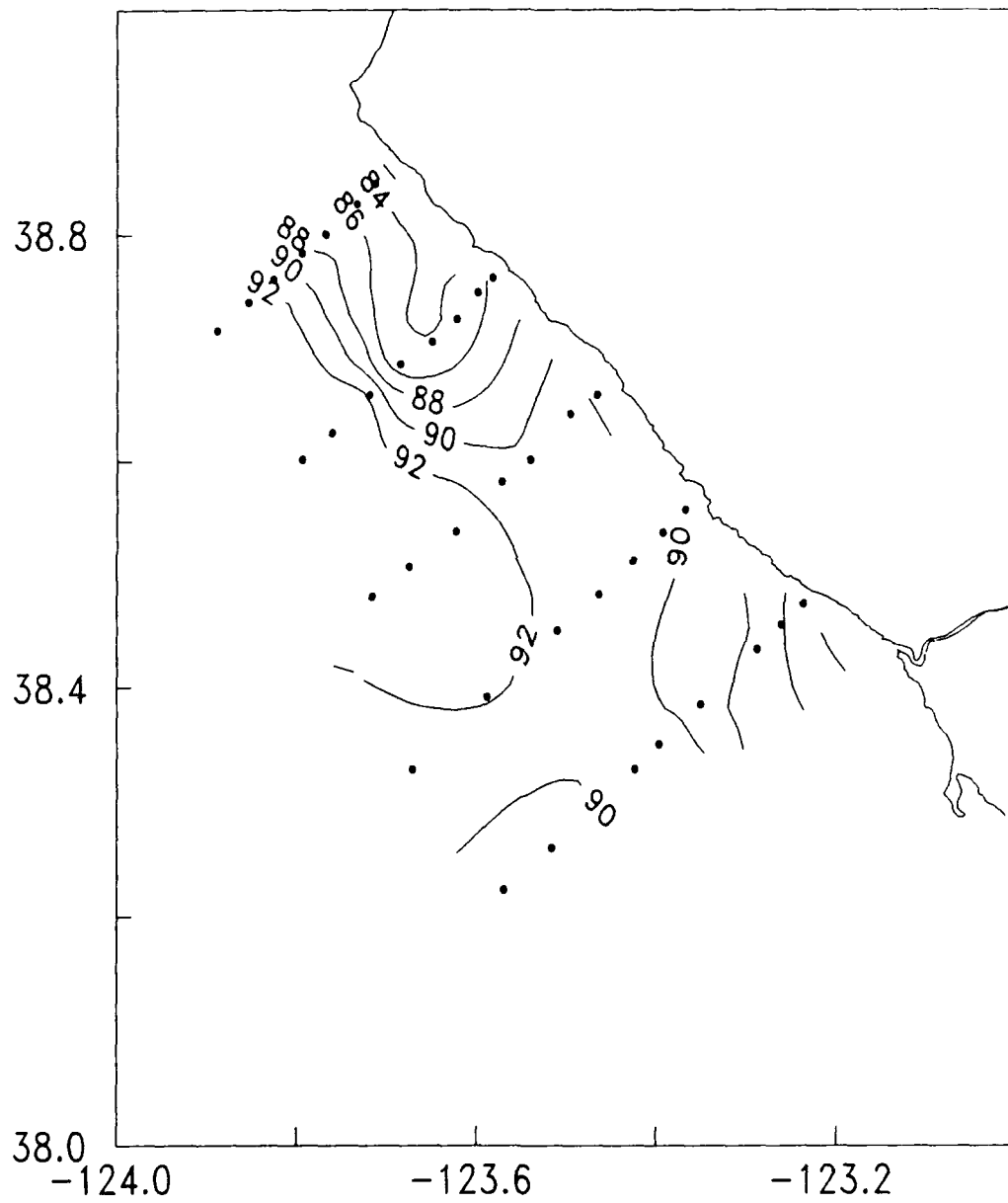




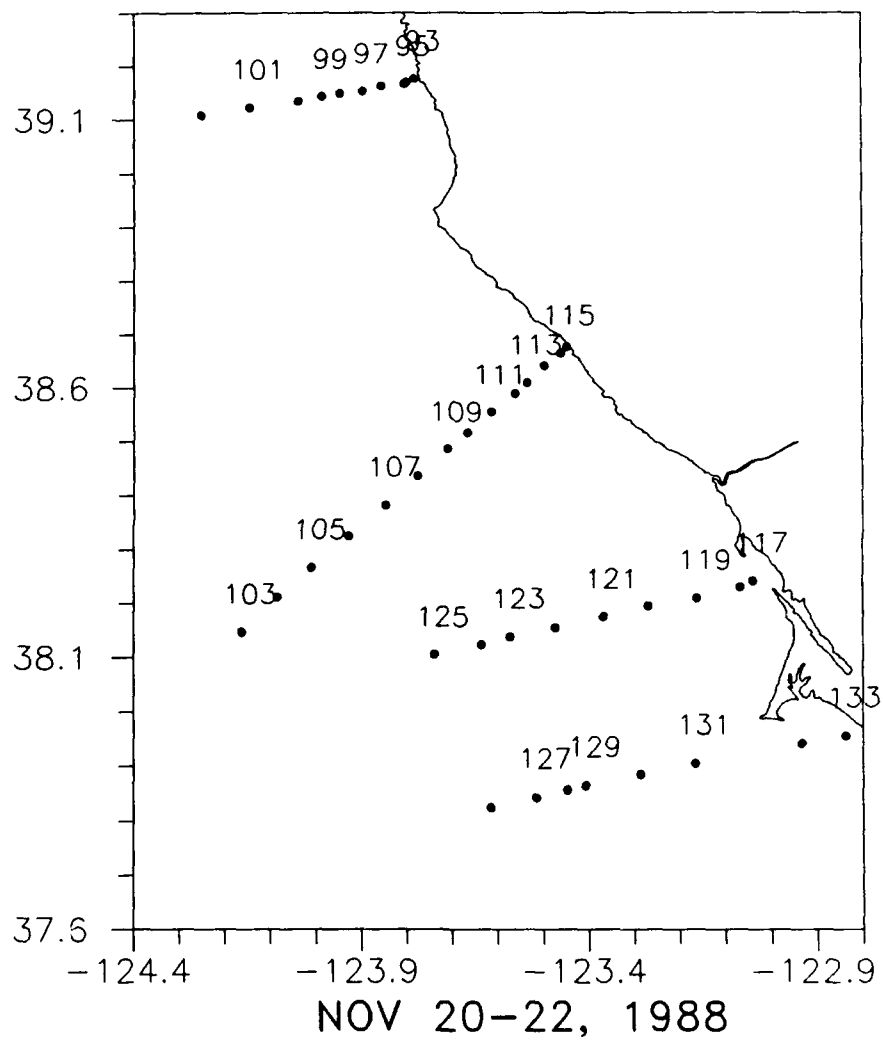
# SURFACE SIGMAT NOV 19-20 1988

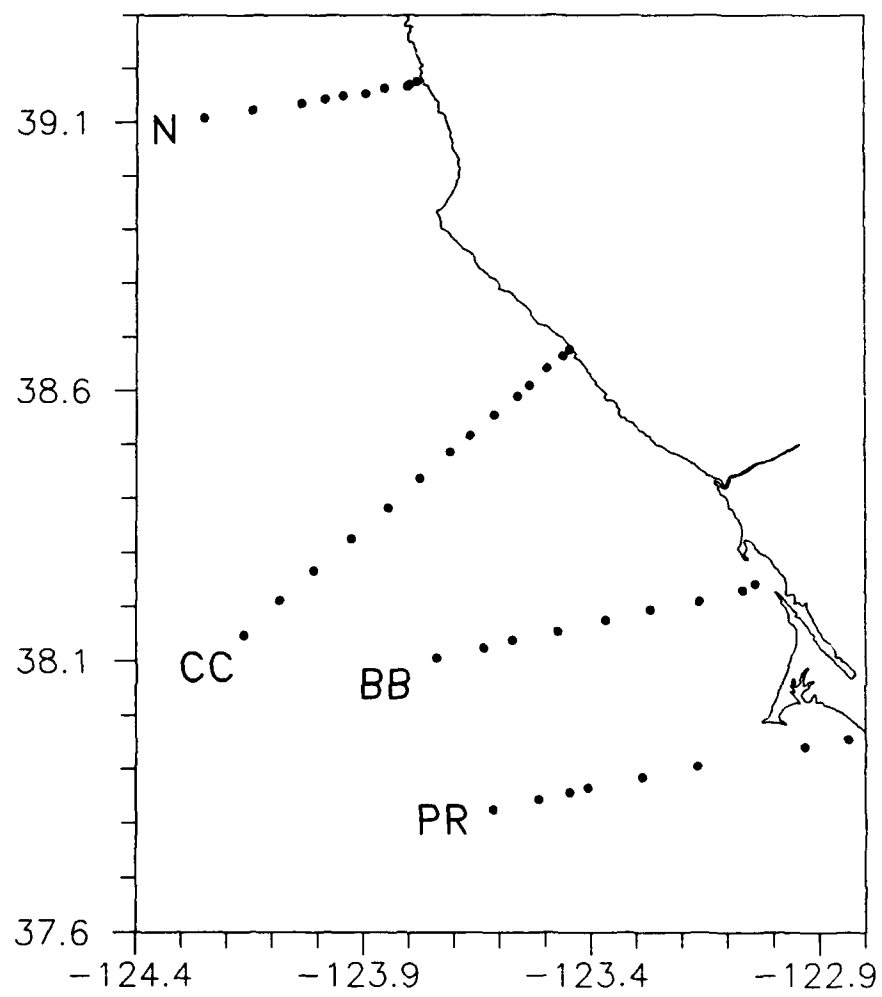


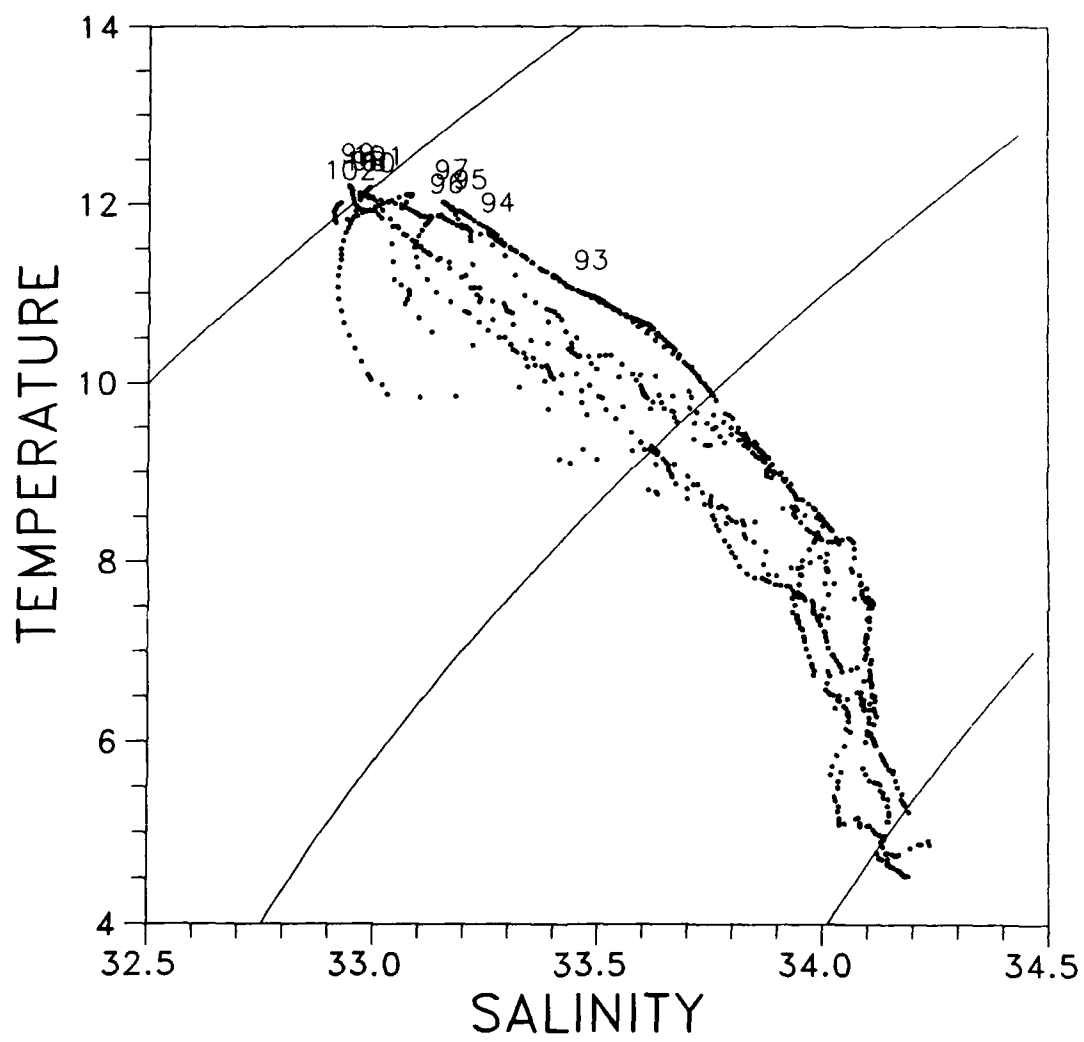
SURFACE LIGHT NOV 19-20 1988



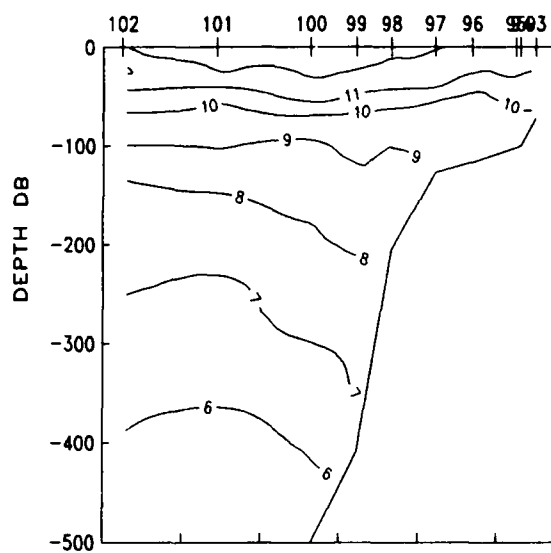
**E. Large-Scale Survey – Nov 20–22, 1988**  
**Stations 93 to 133**



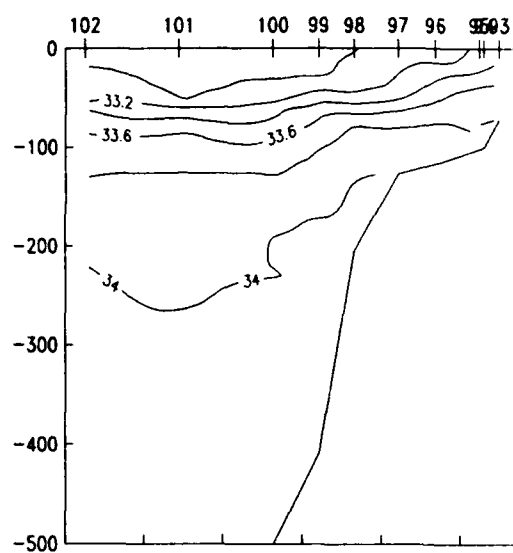




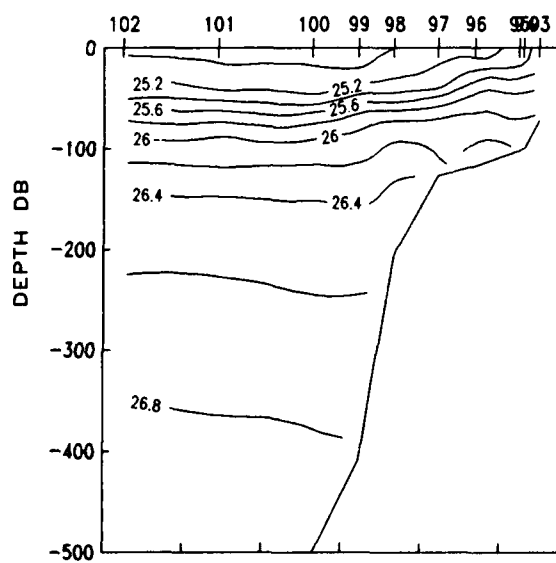
N TEMPERATURE



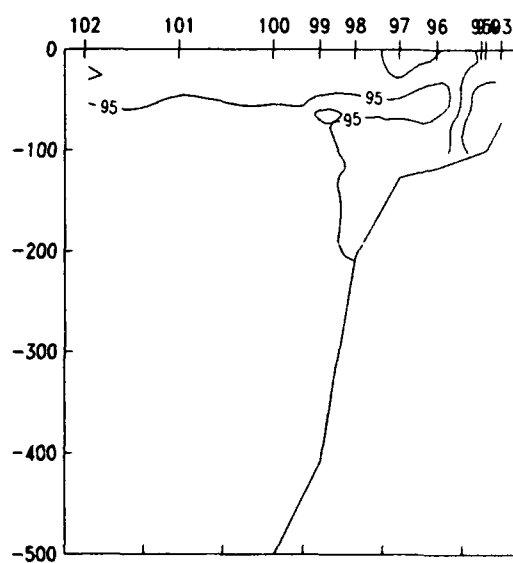
N SALINITY

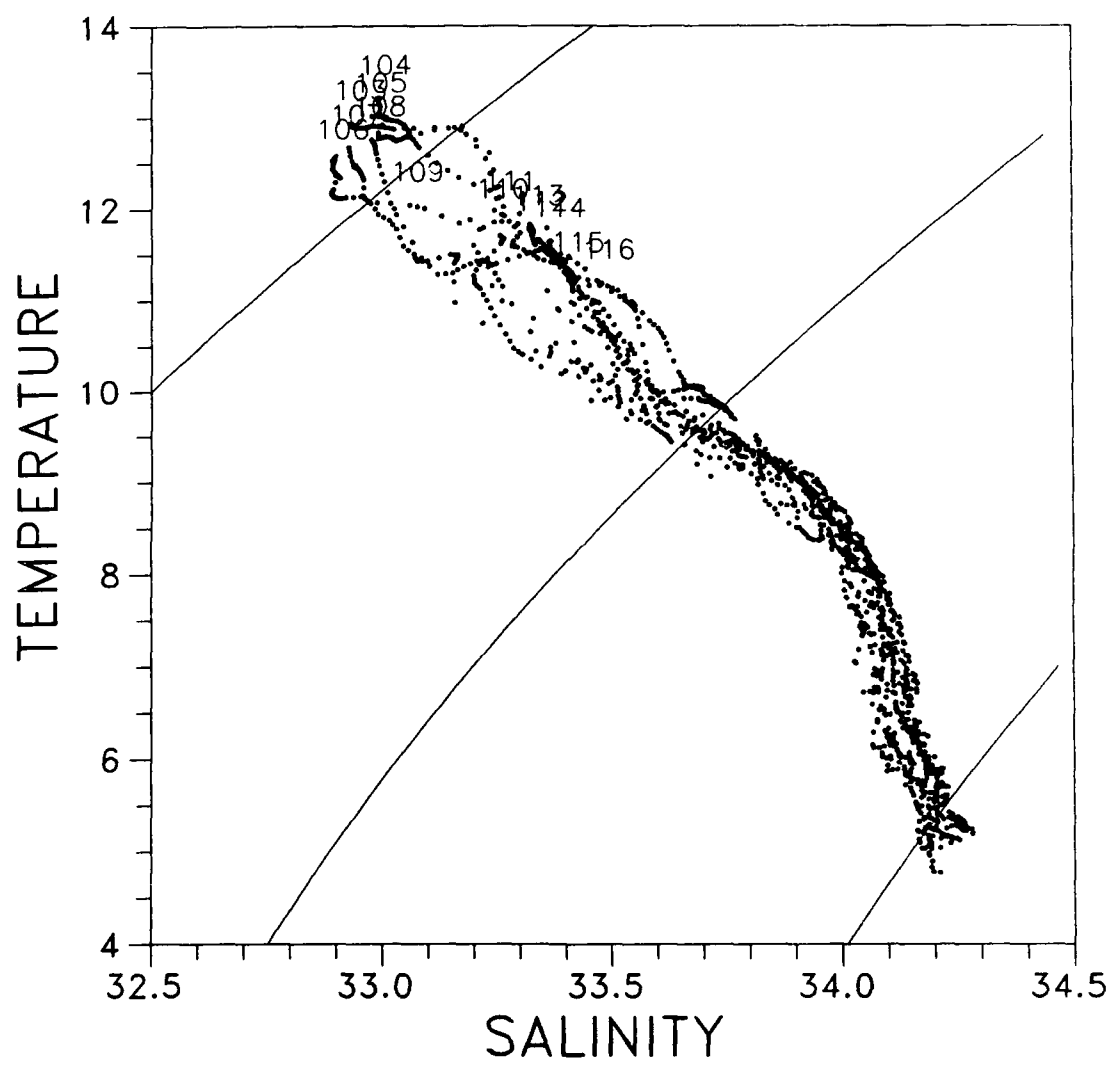


N SIGMAT

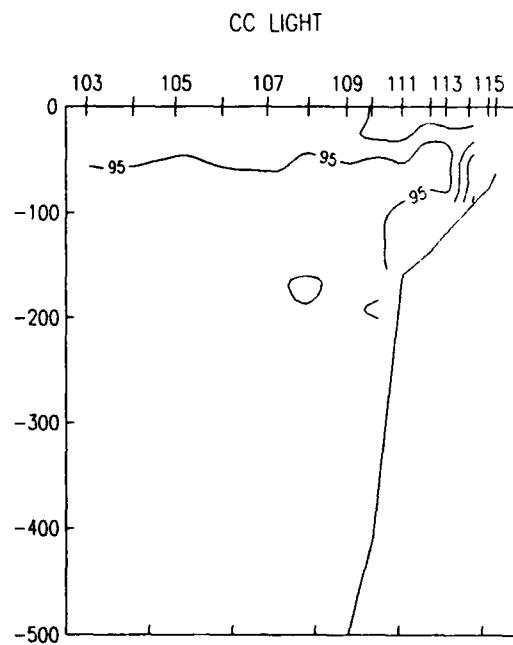
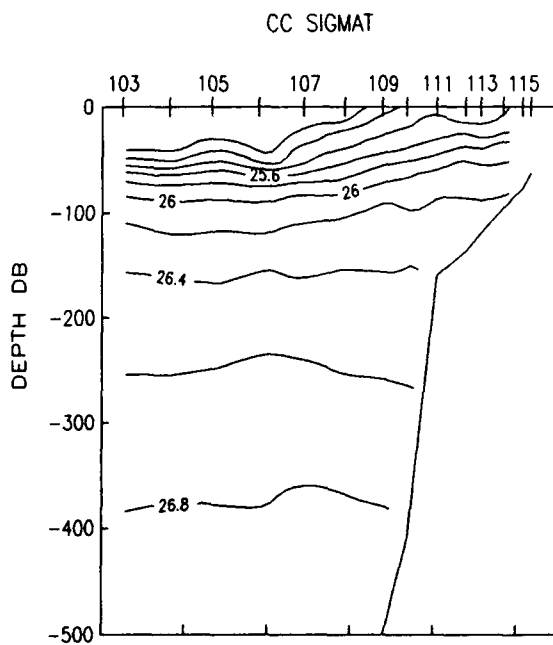
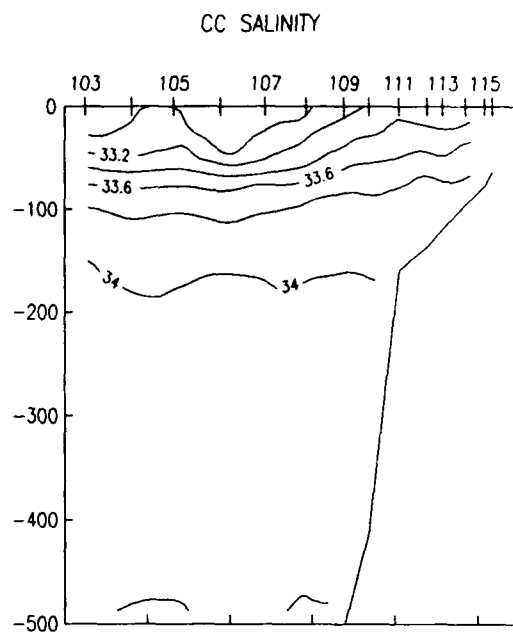
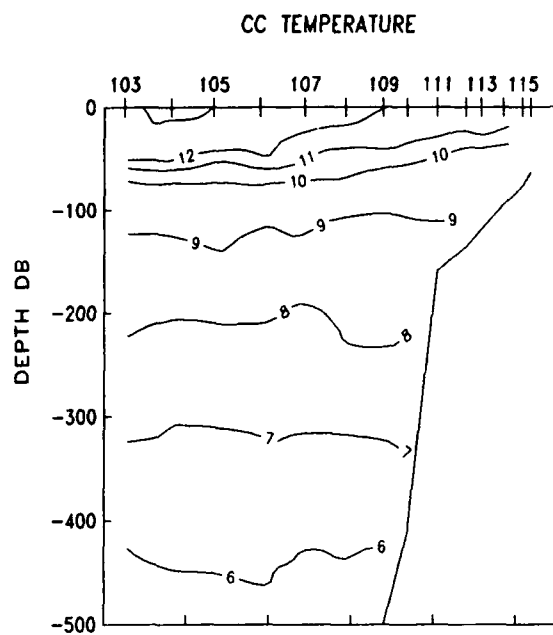


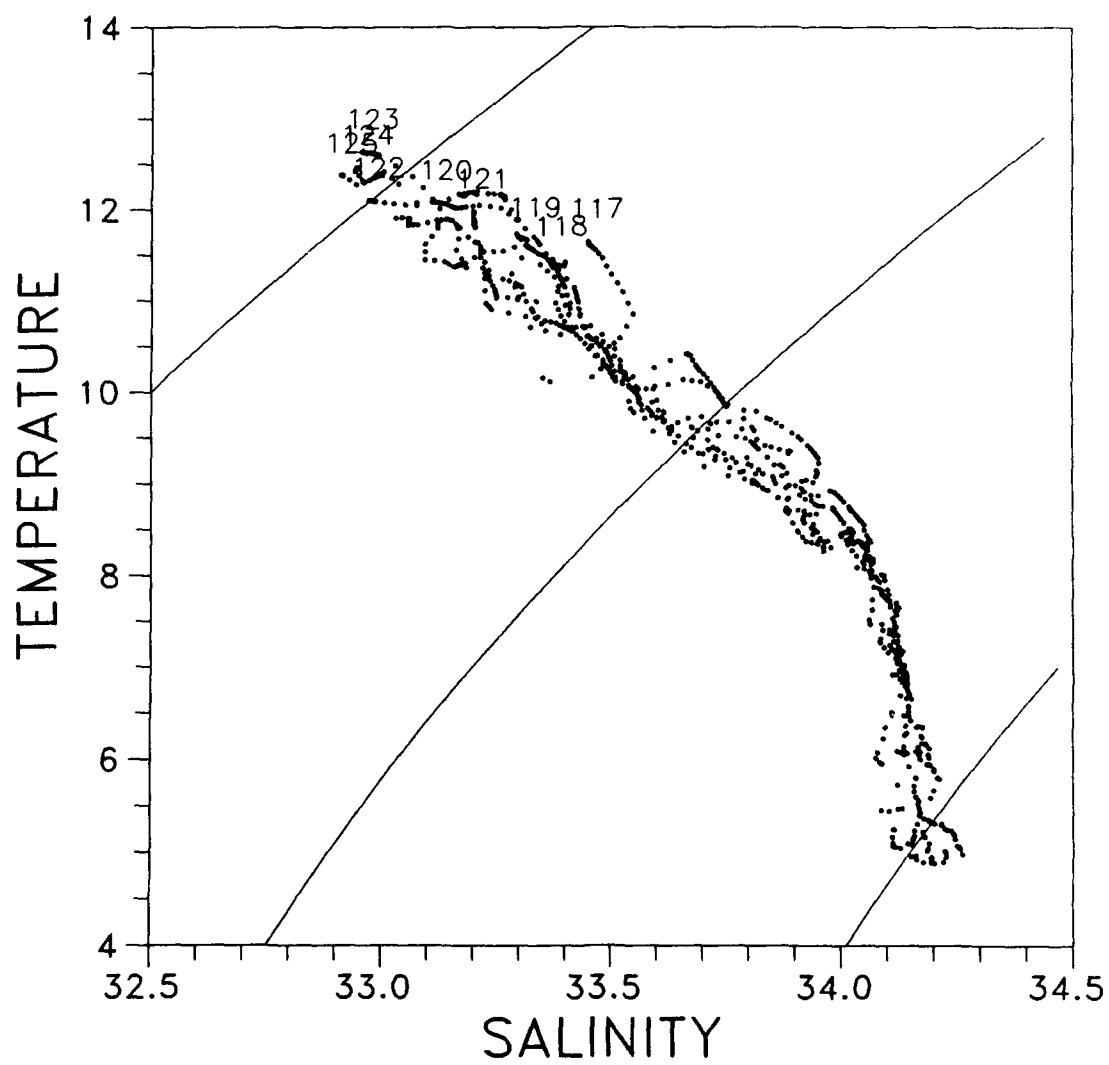
N LIGHT

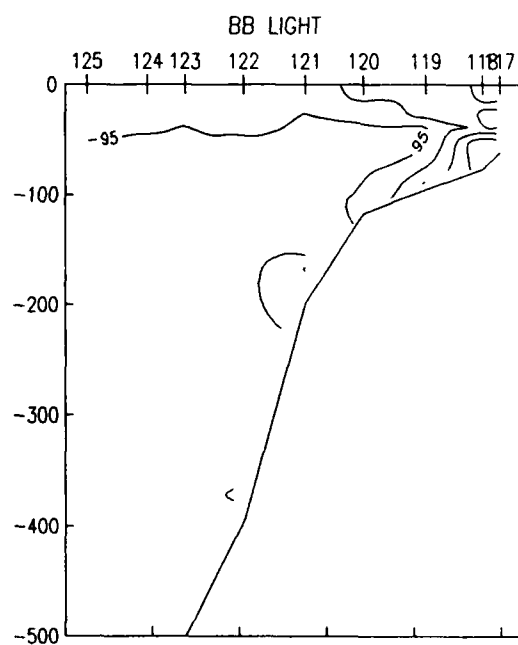
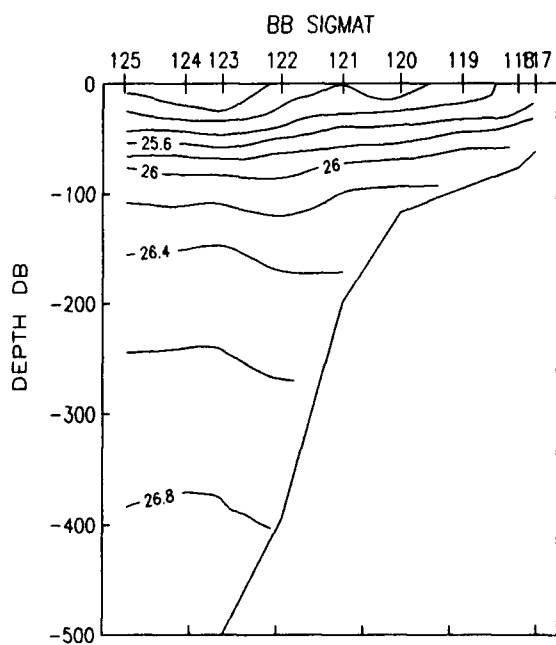
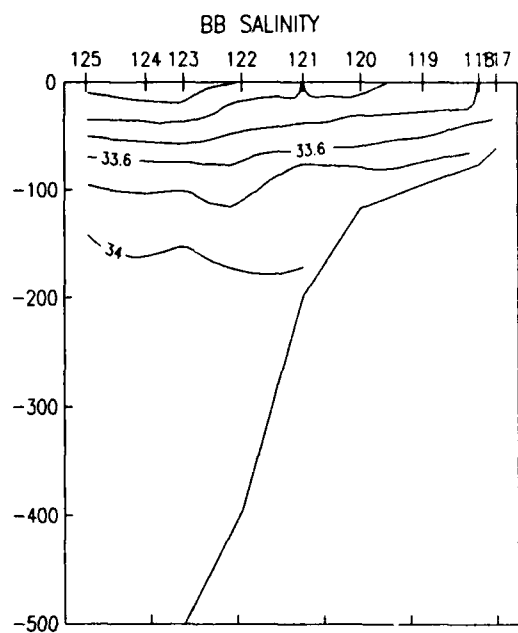
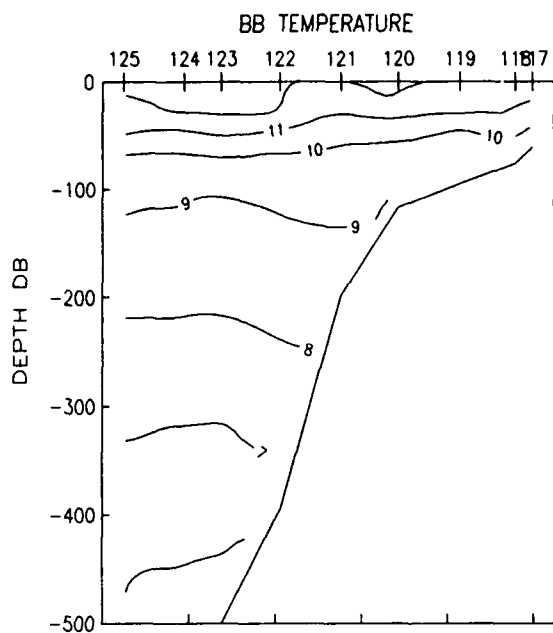


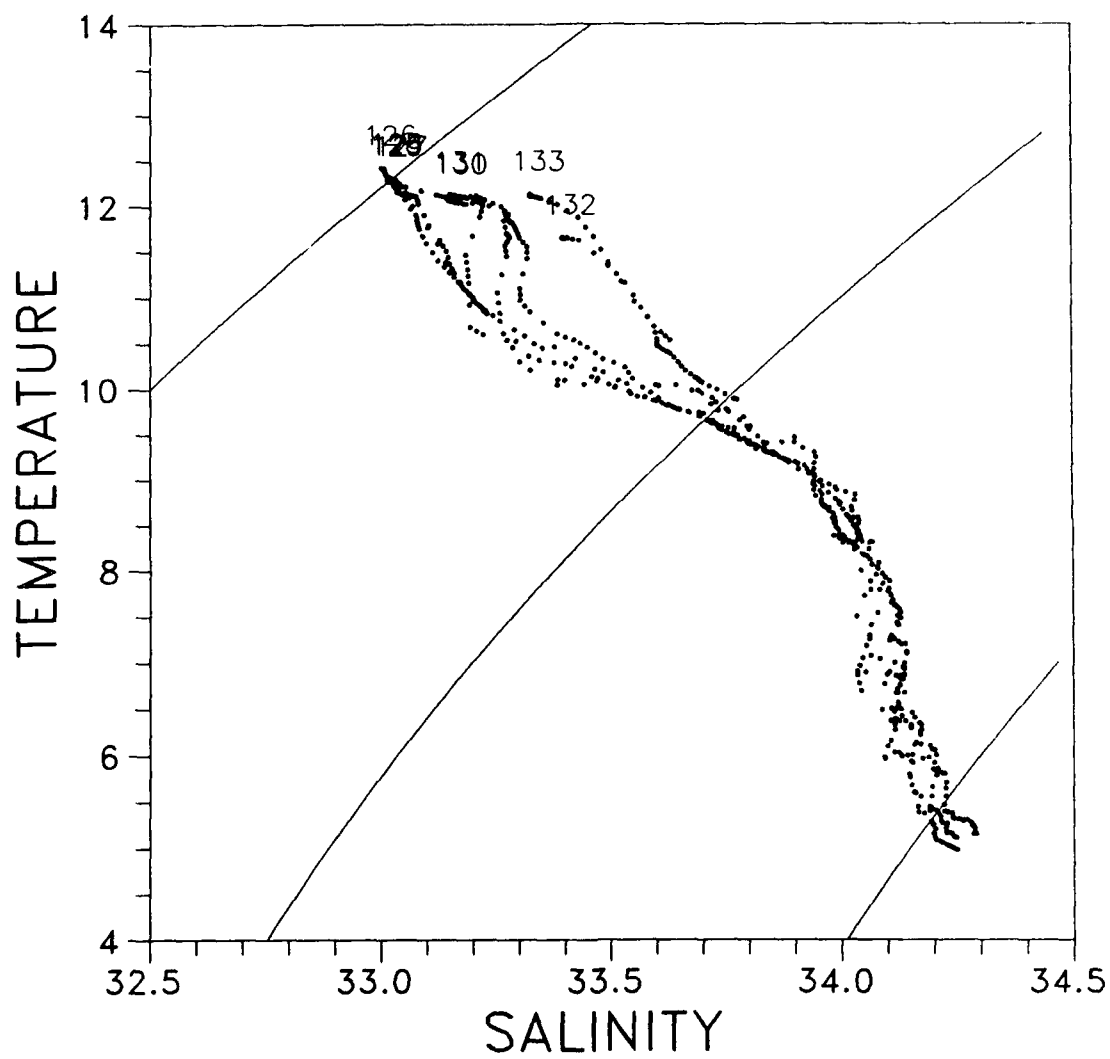


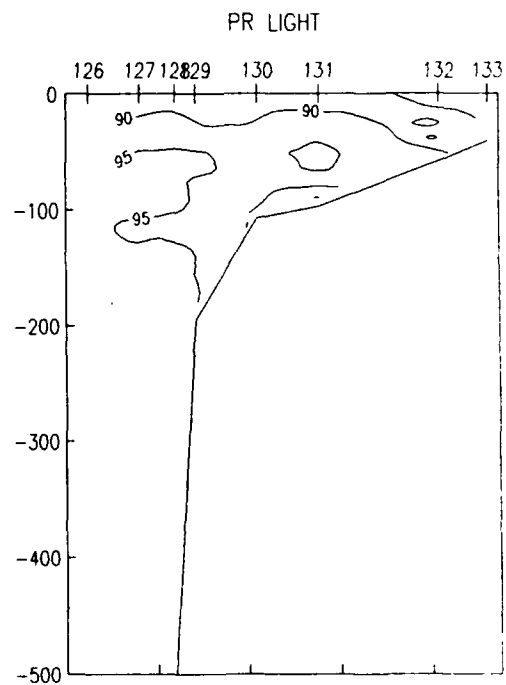
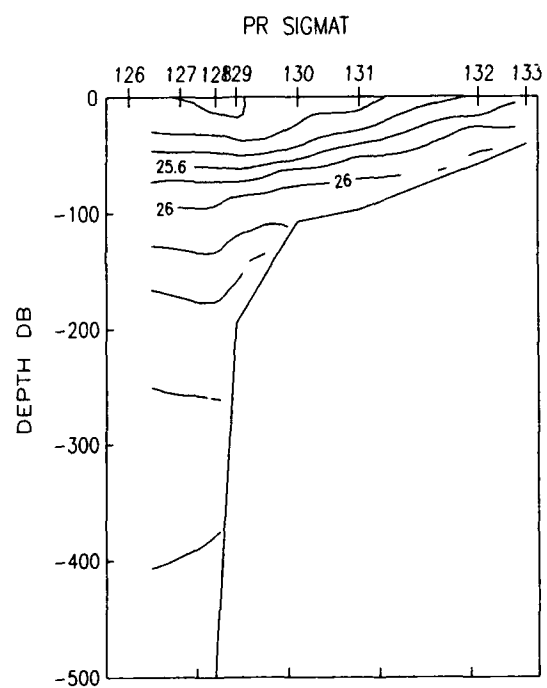
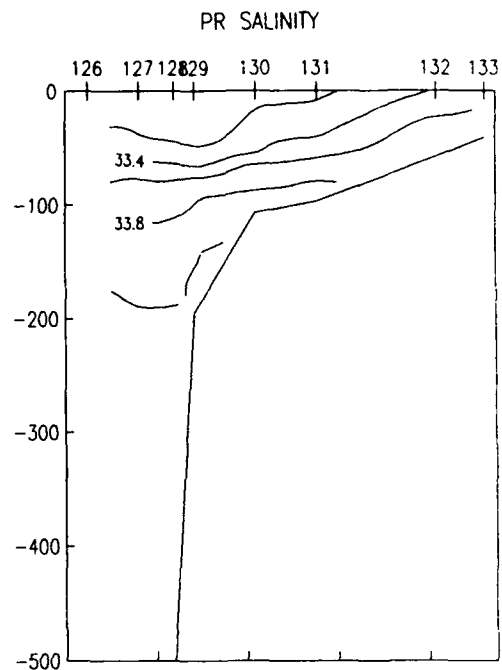
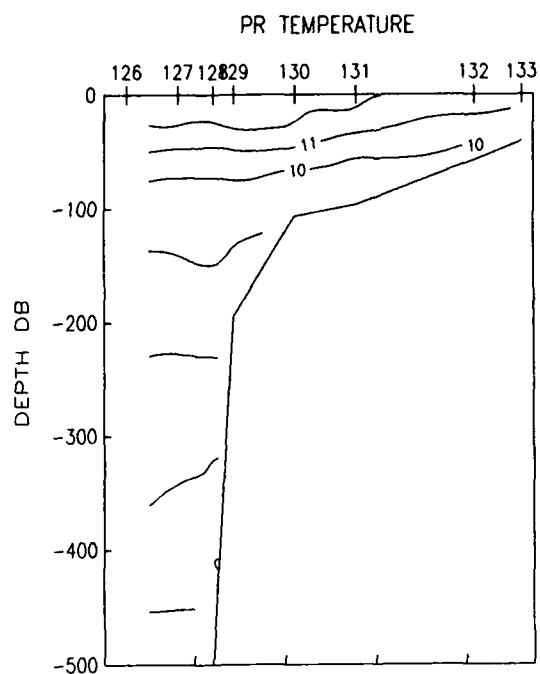




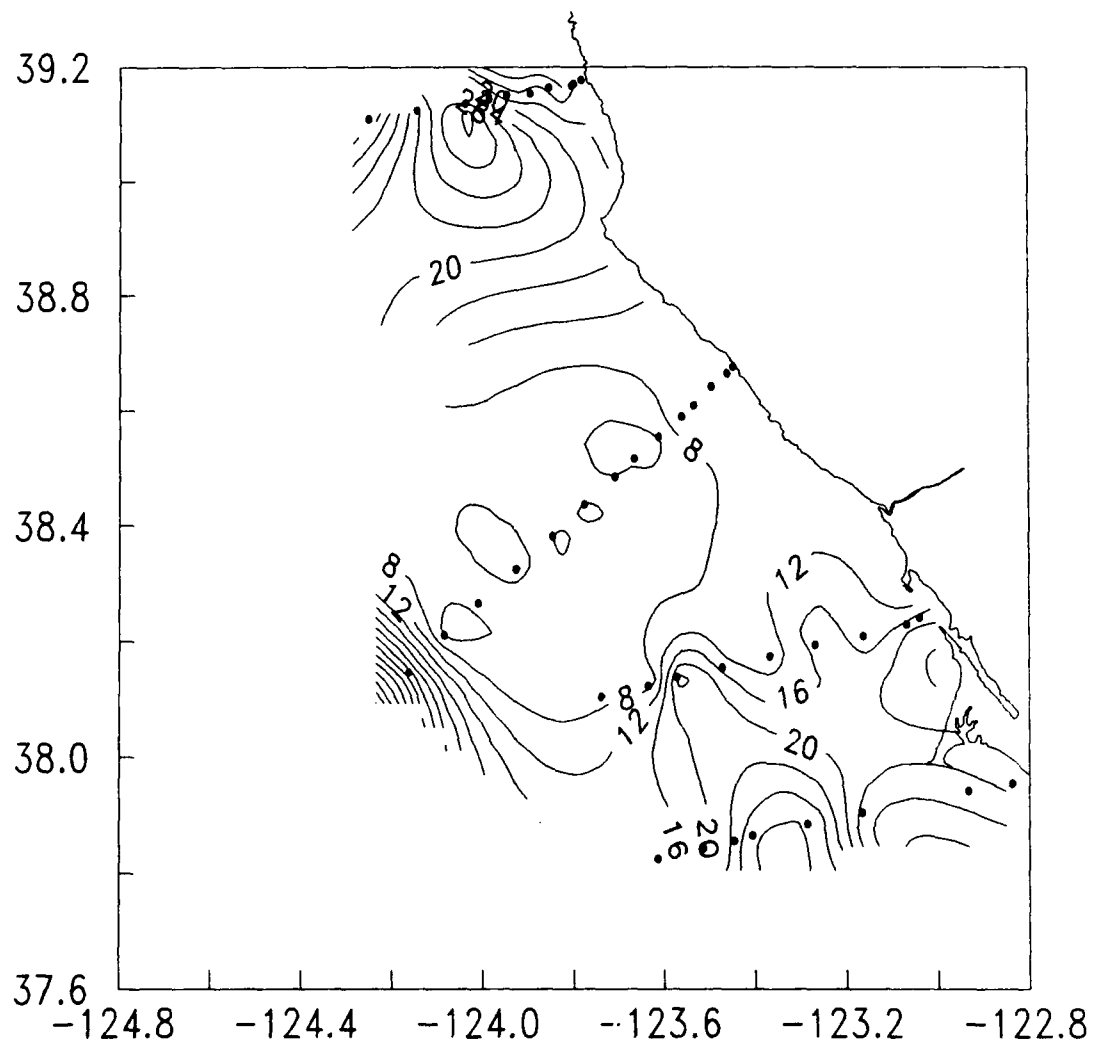




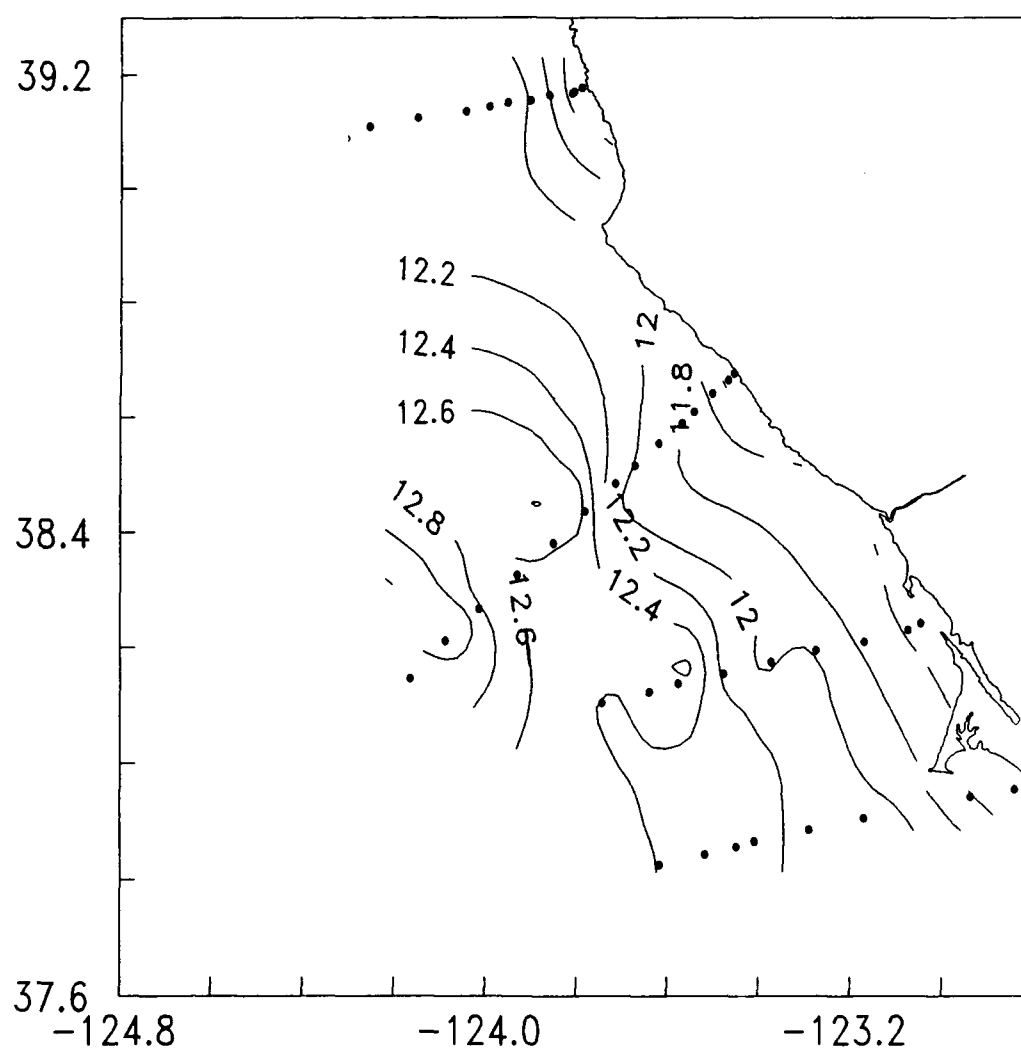




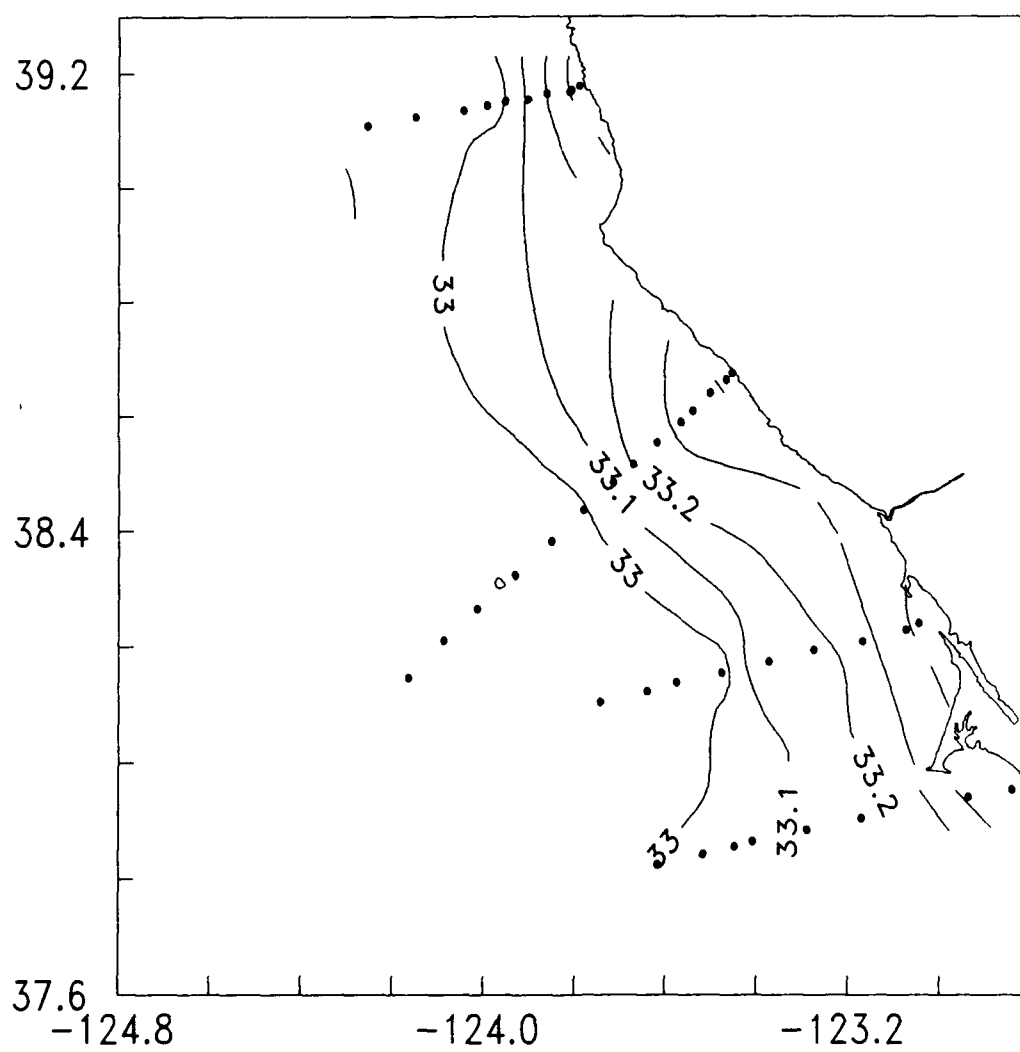
SURFACE MIXED LAYER DEPTH M NOV 20-22, 1988



# SURFACE TEMP NOV 20-22 1988

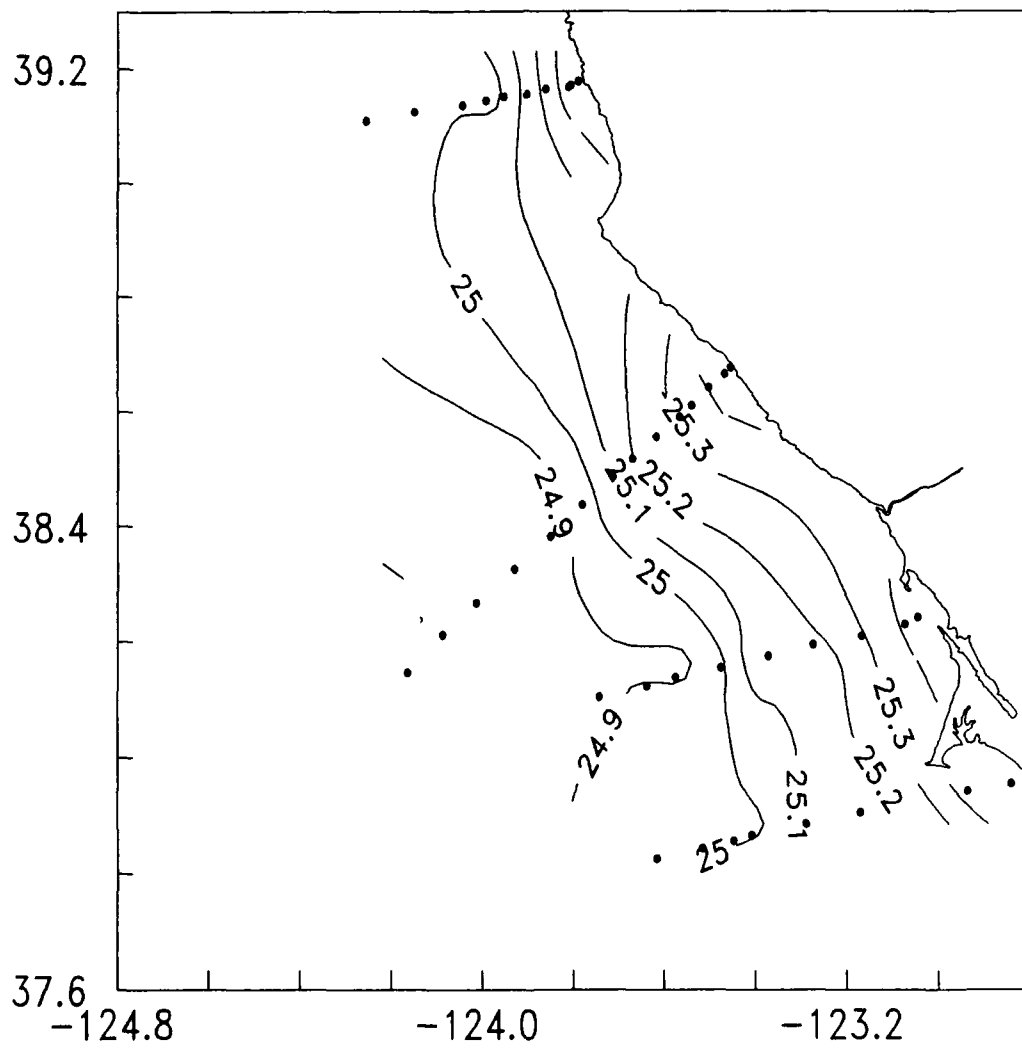


# SURFACE SALT NCV 20-22 1988

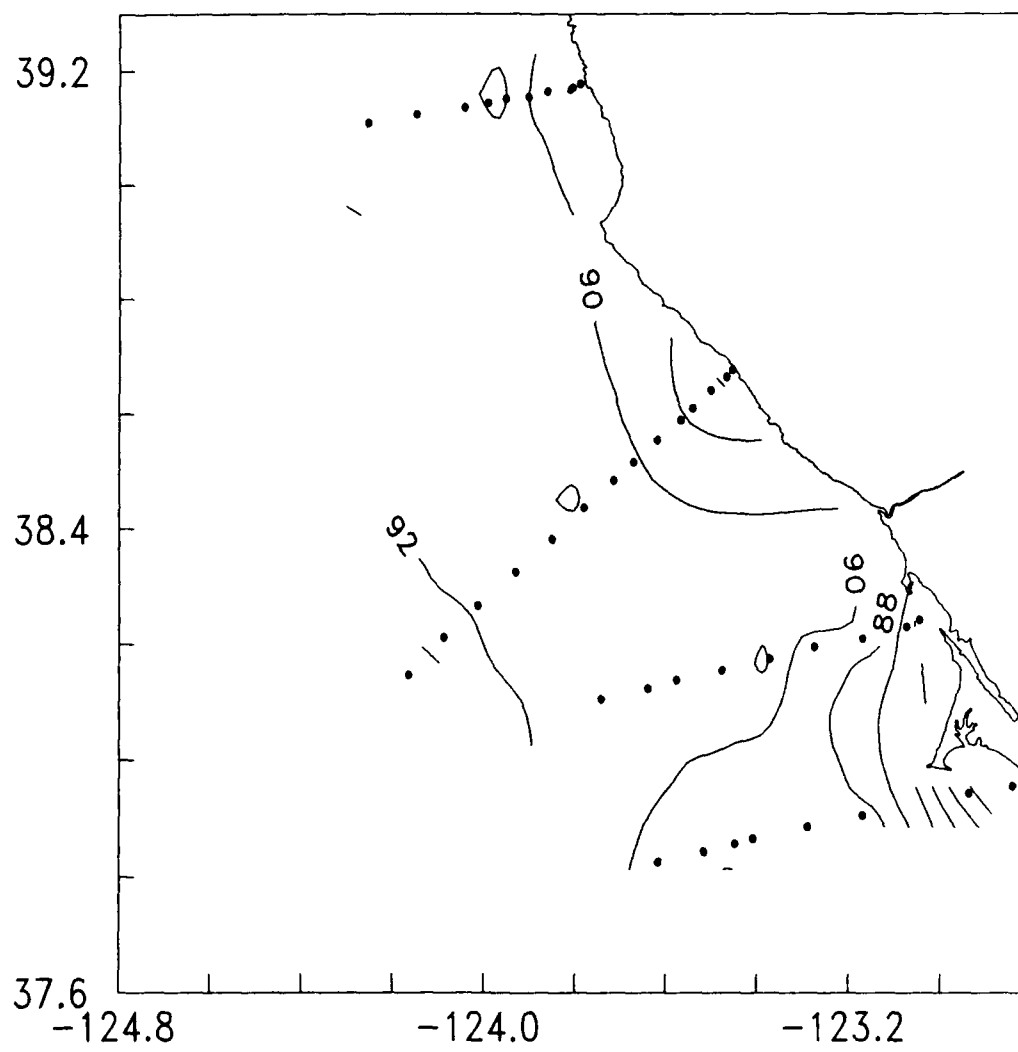




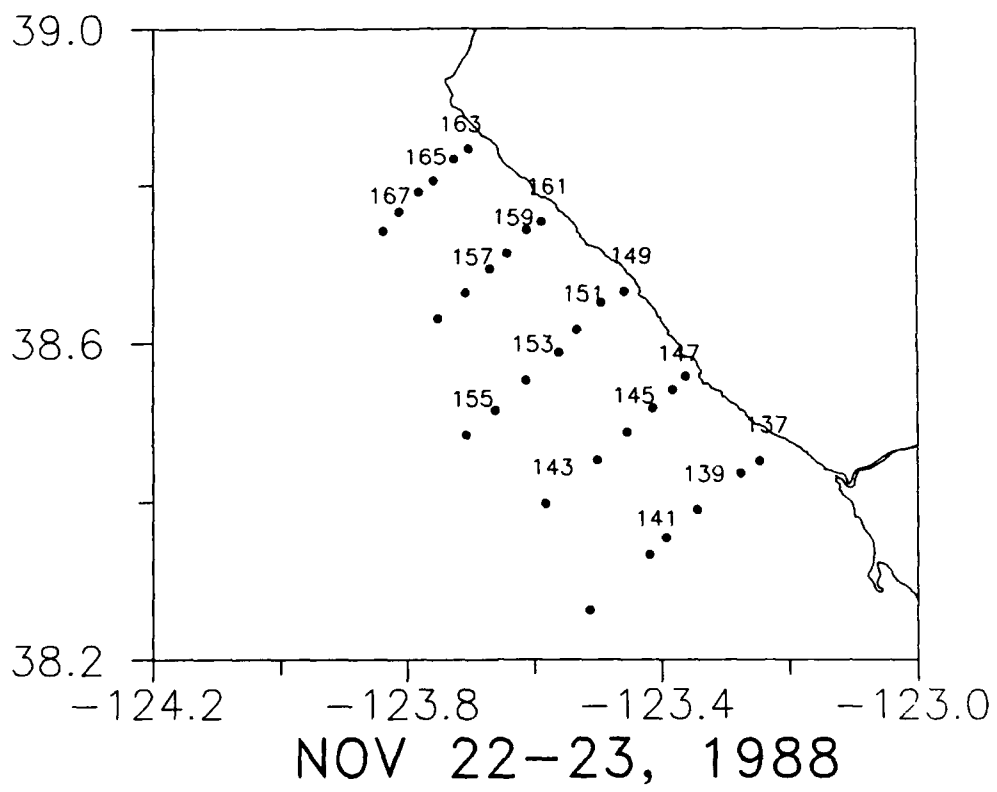
SURFACE SIGMAT NOV 20-22 1988

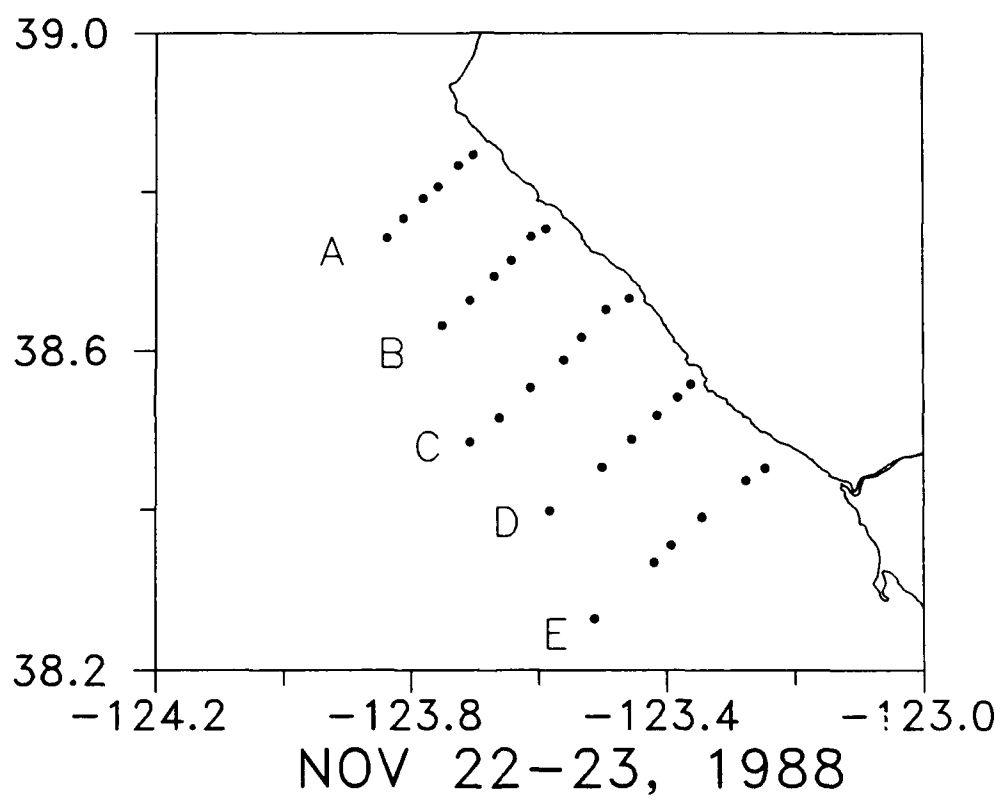


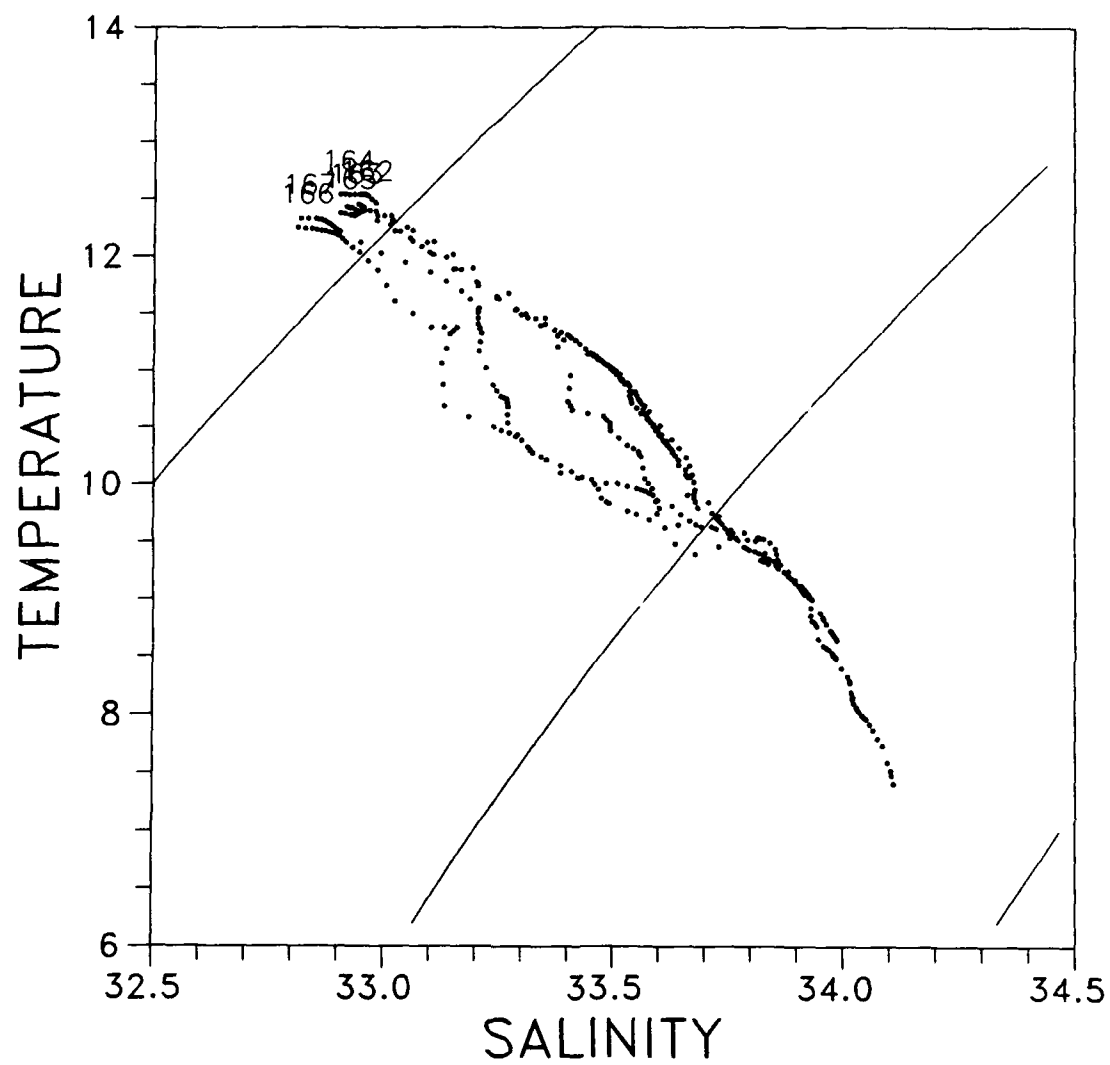
SURFACE LIGHT NOV 20-22 1988

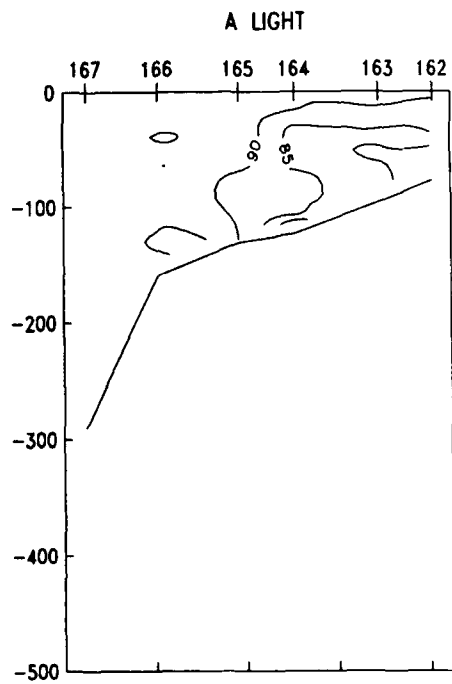
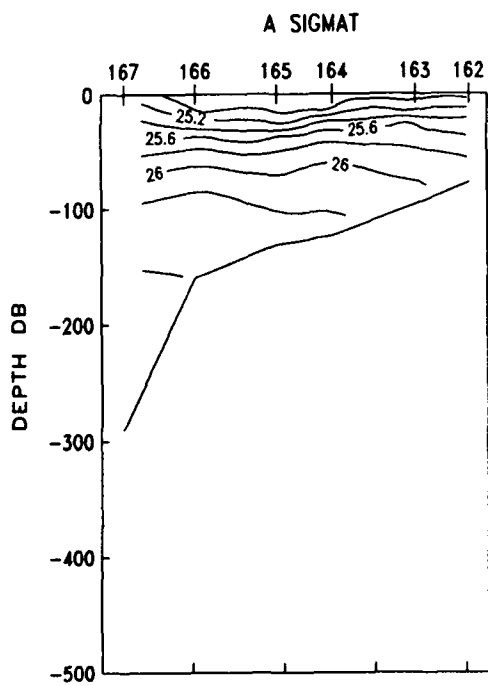
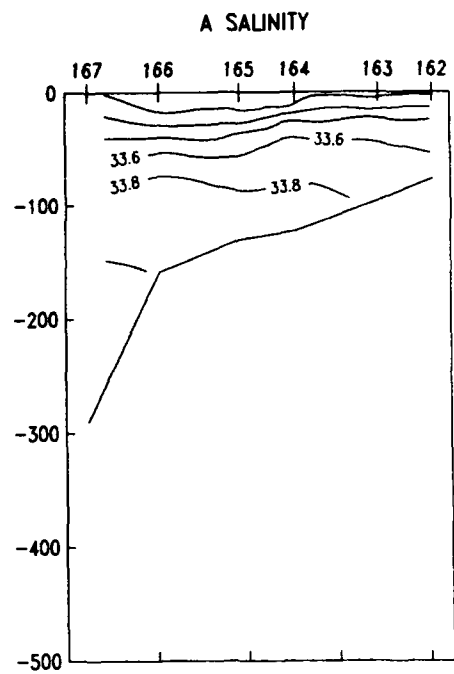
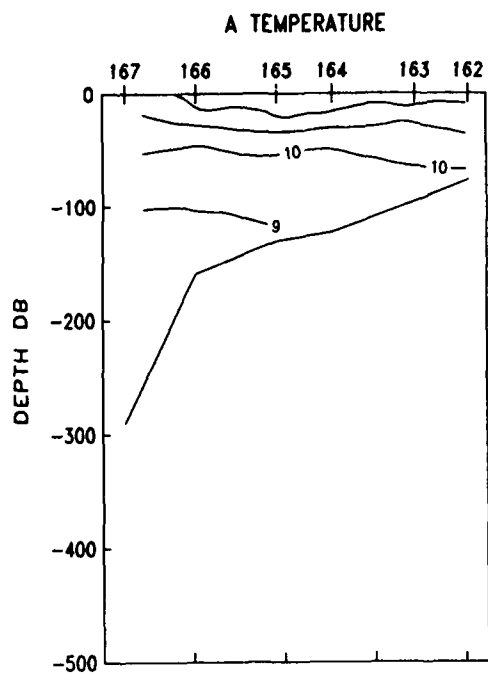


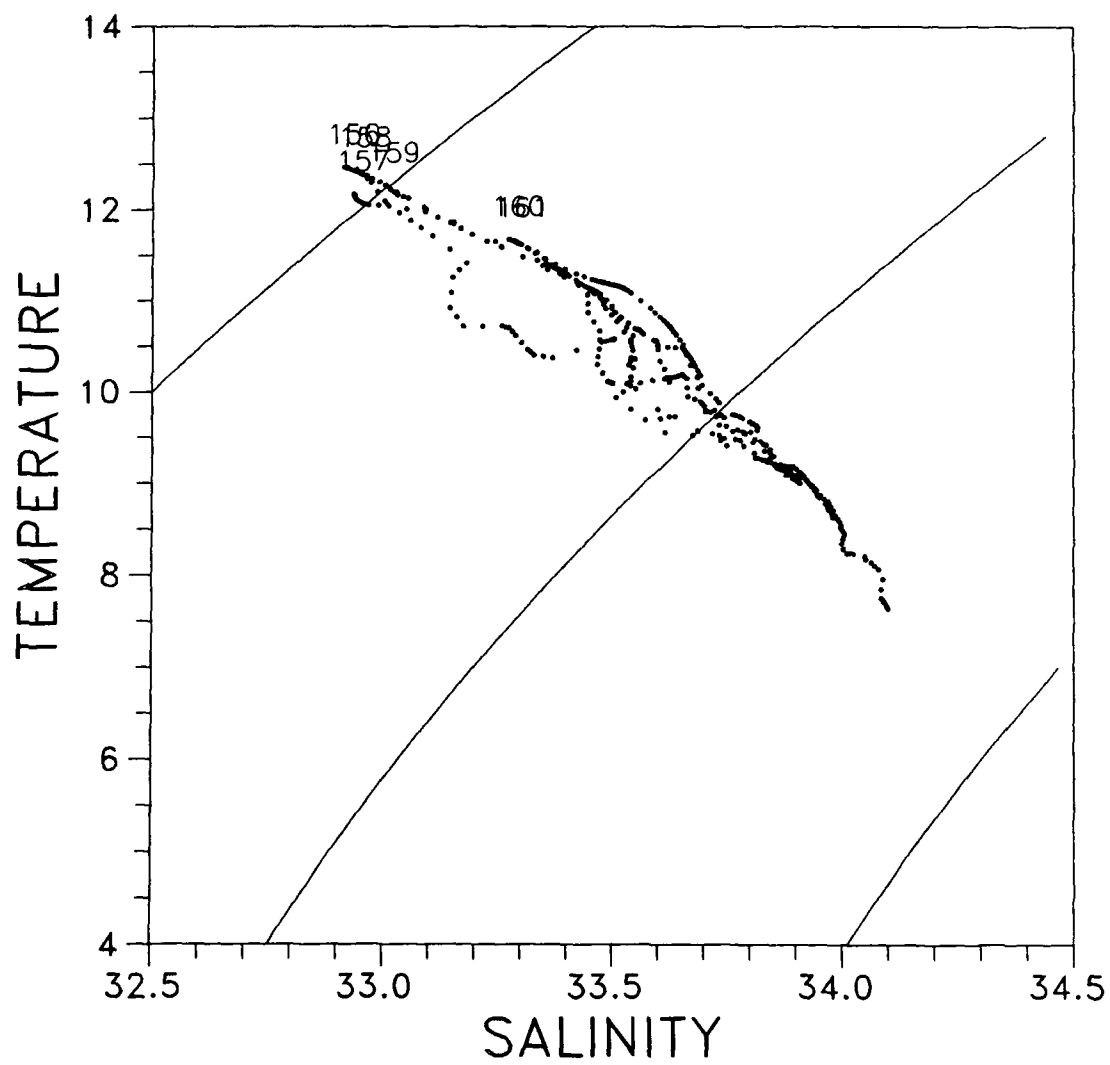
**F. Small-Scale Survey 3 – Nov 22–23, 1988**  
**Stations 137 to 167**



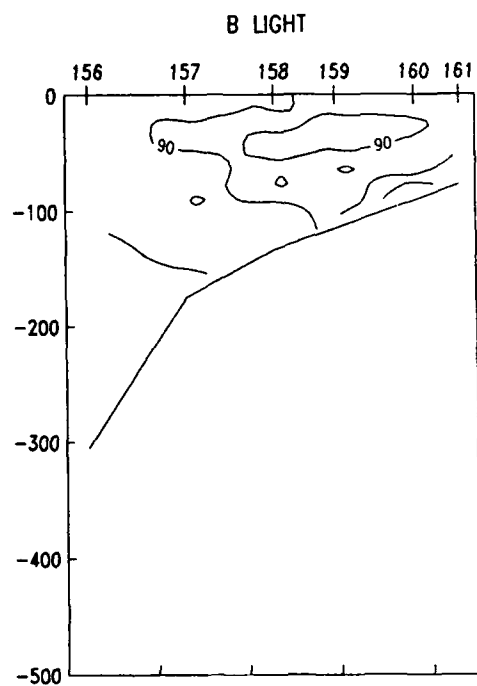
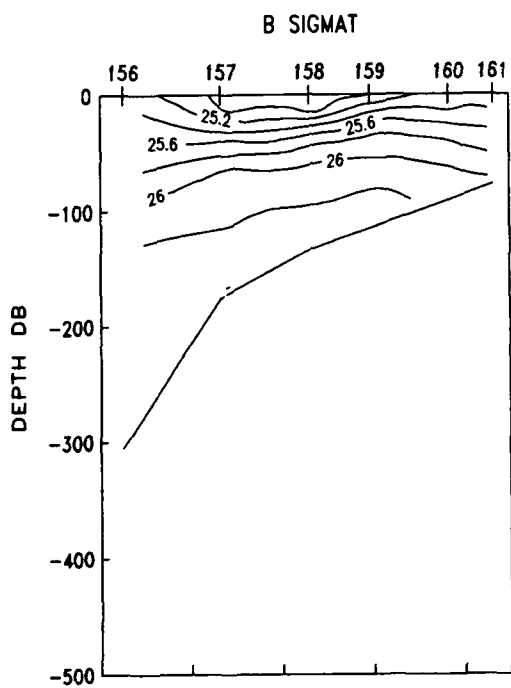
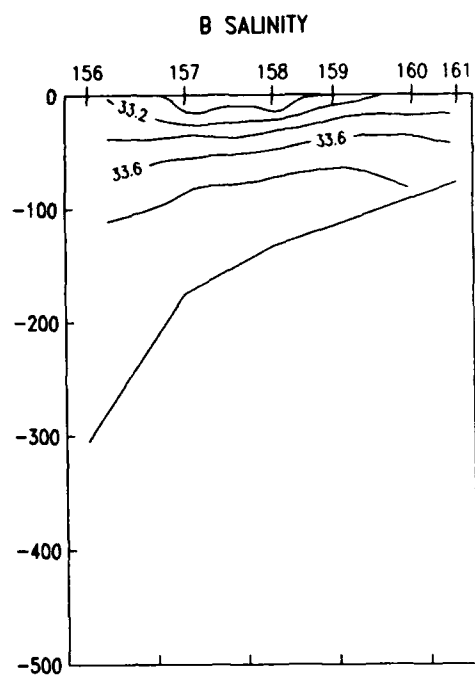
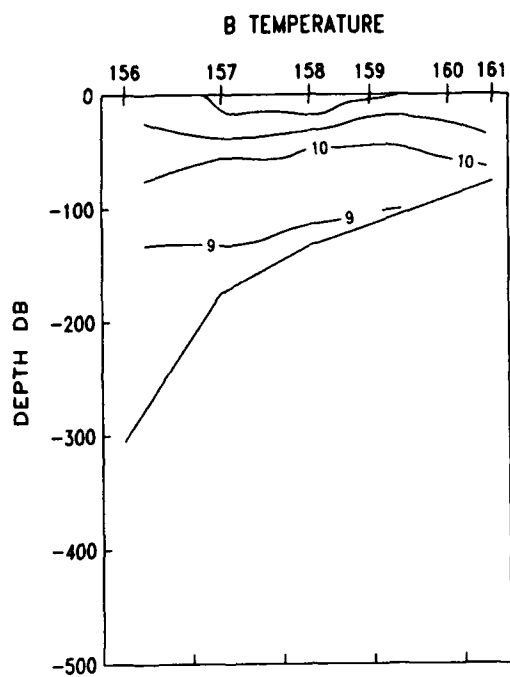


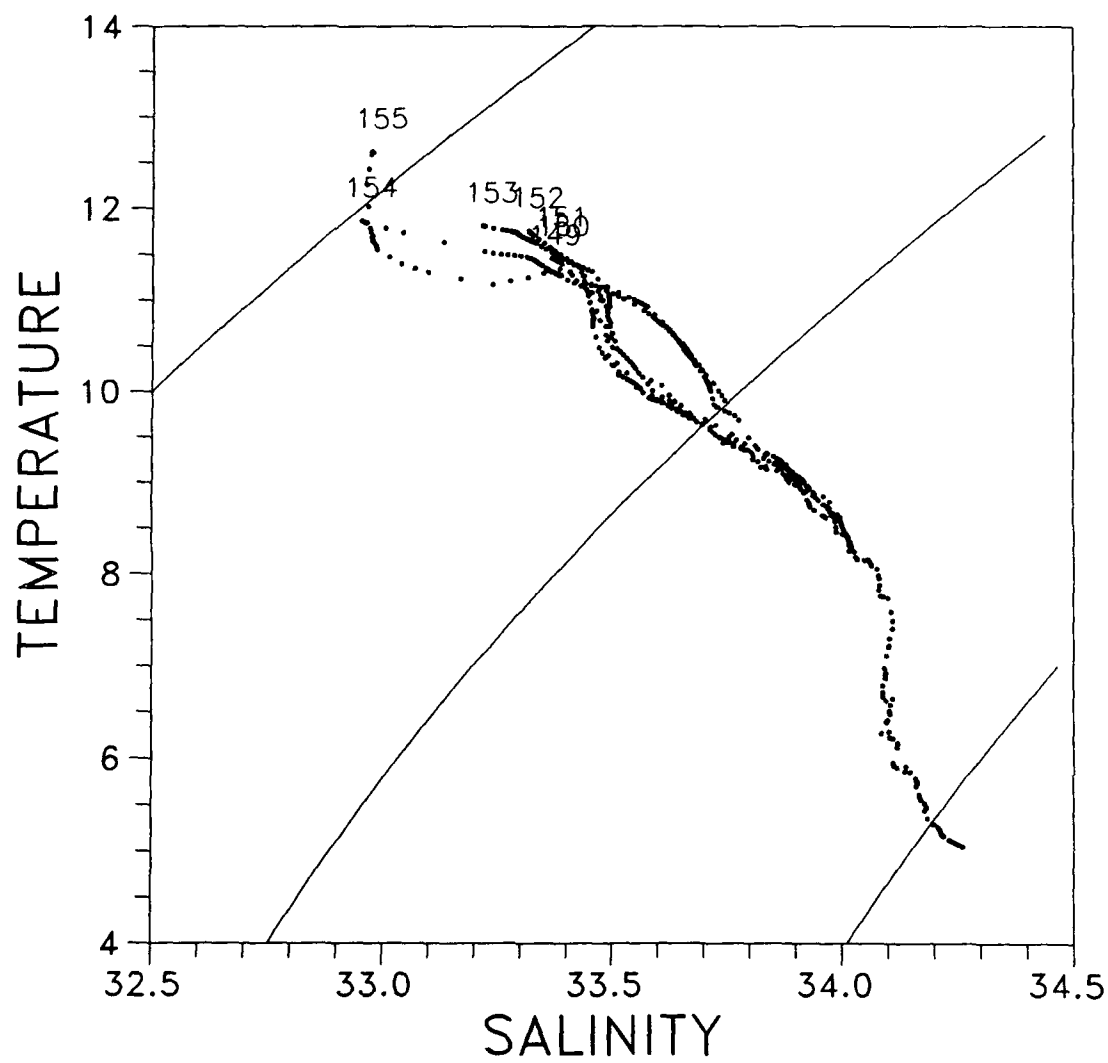




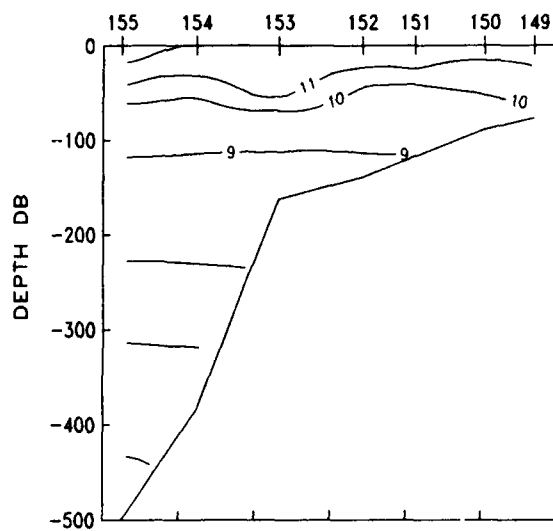




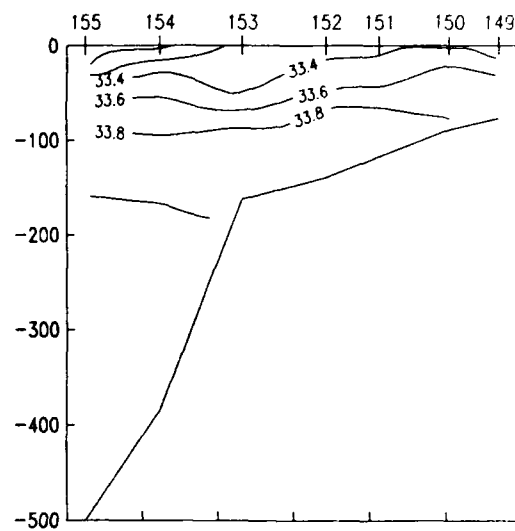




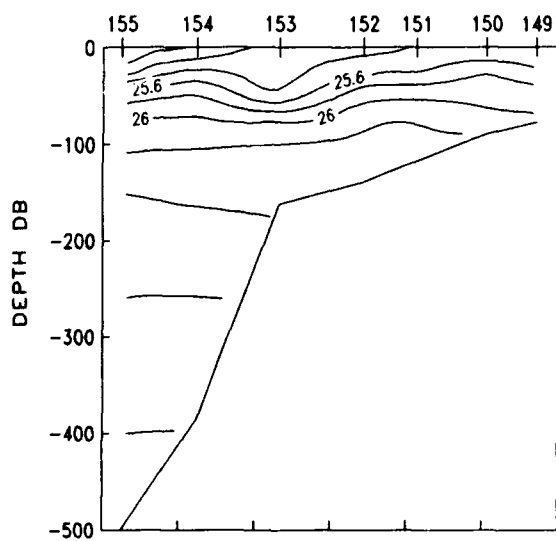
C TEMPERATURE



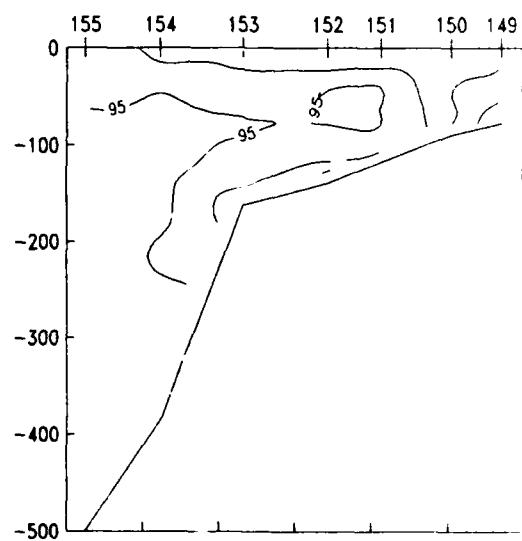
C SALINITY

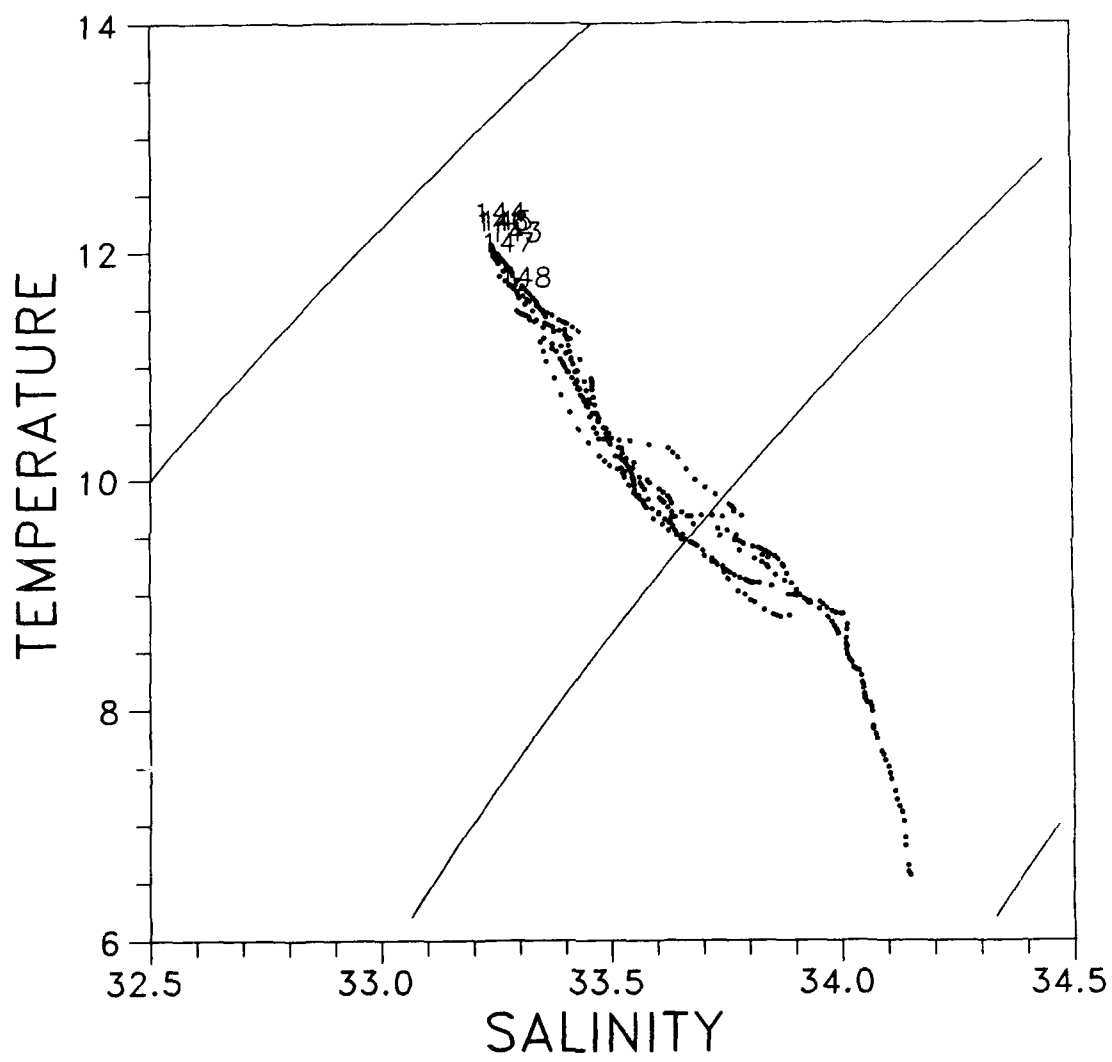


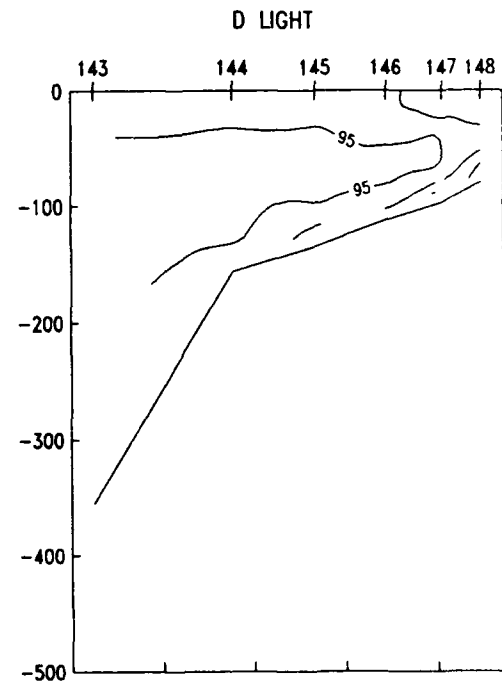
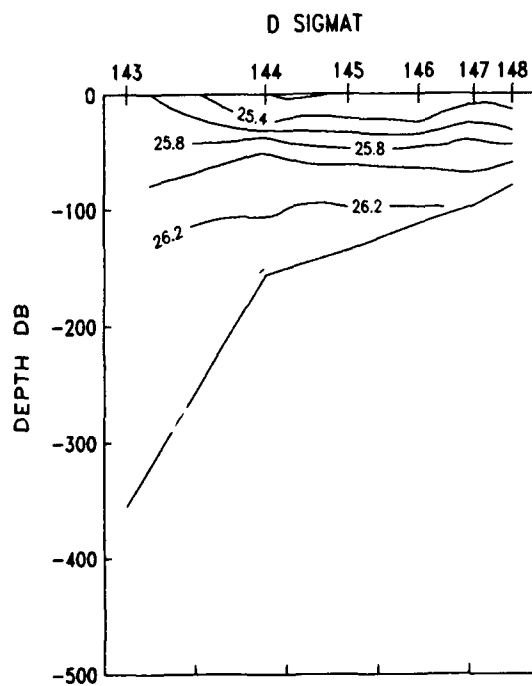
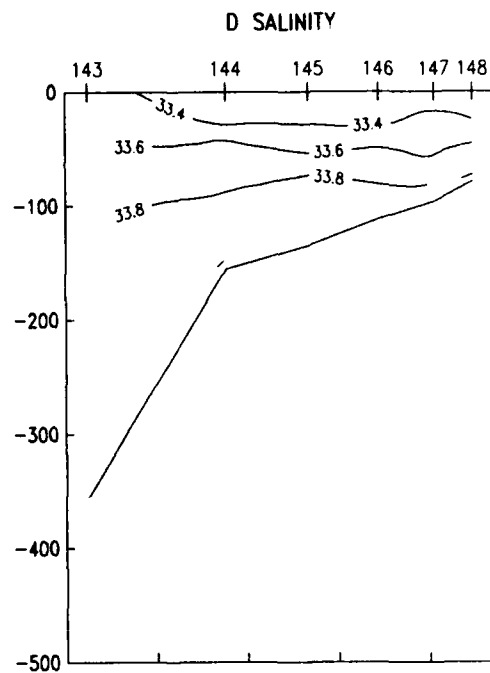
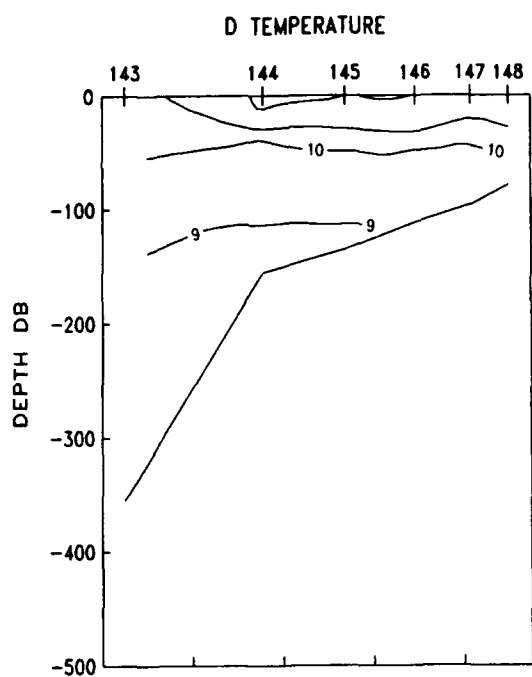
C SIGMAT

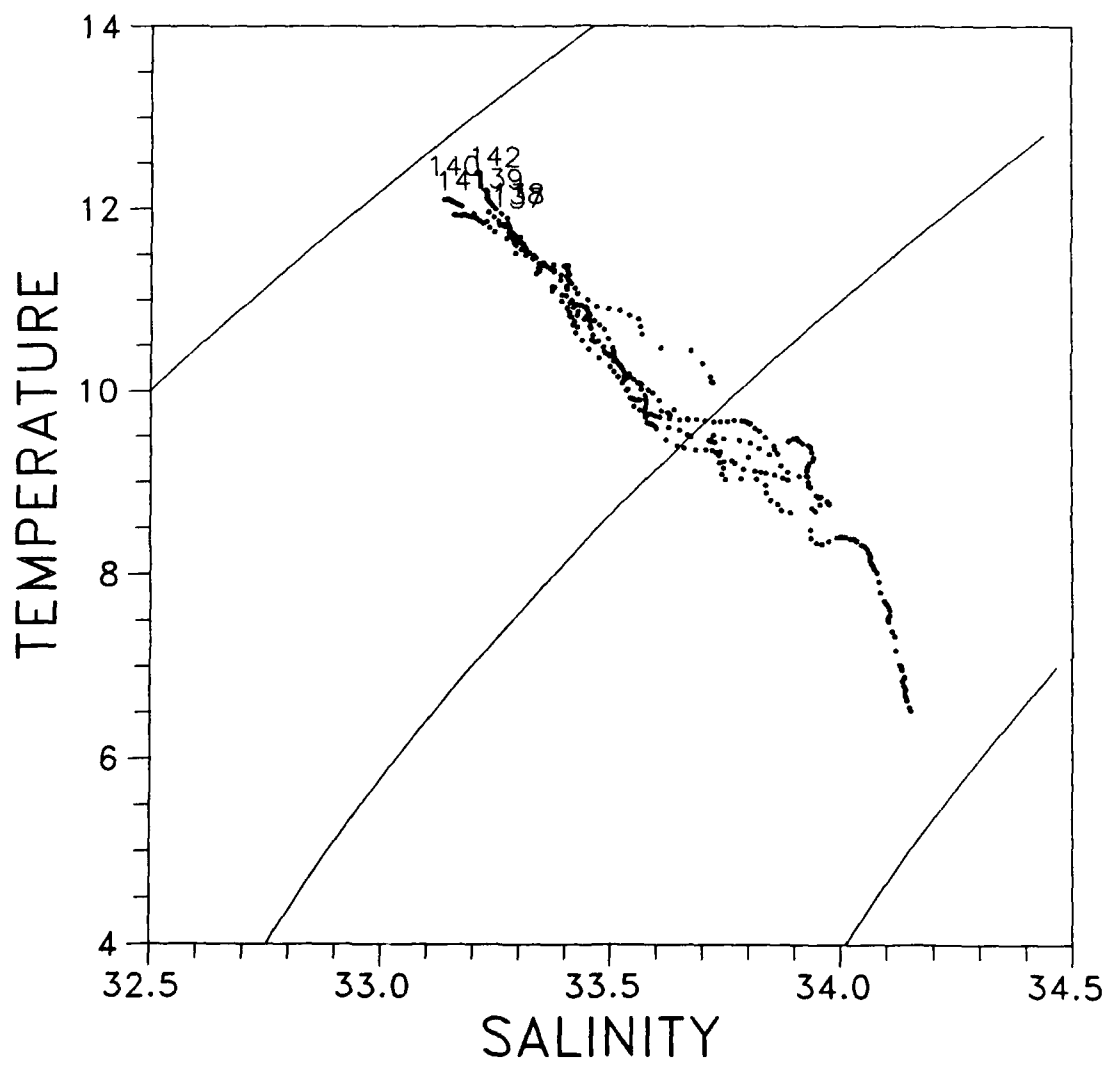


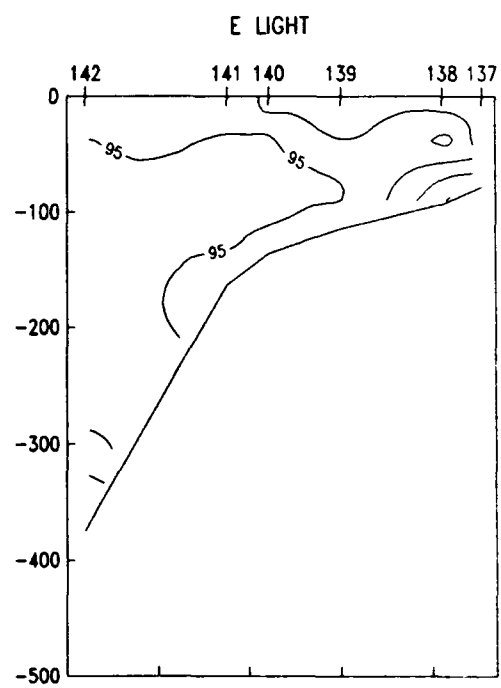
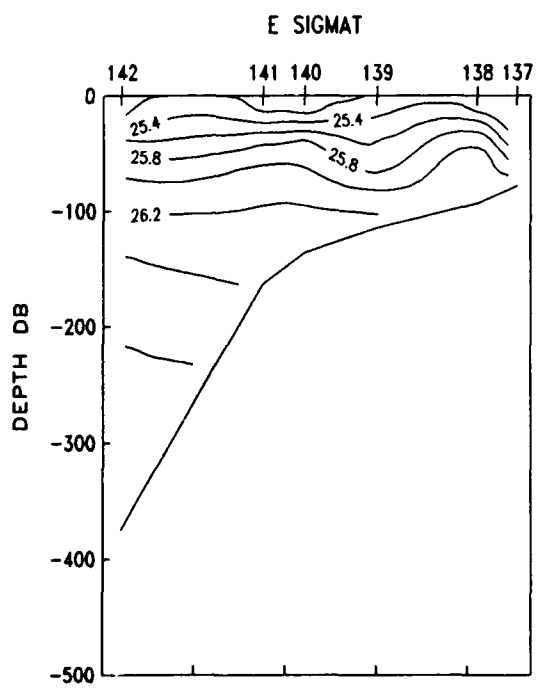
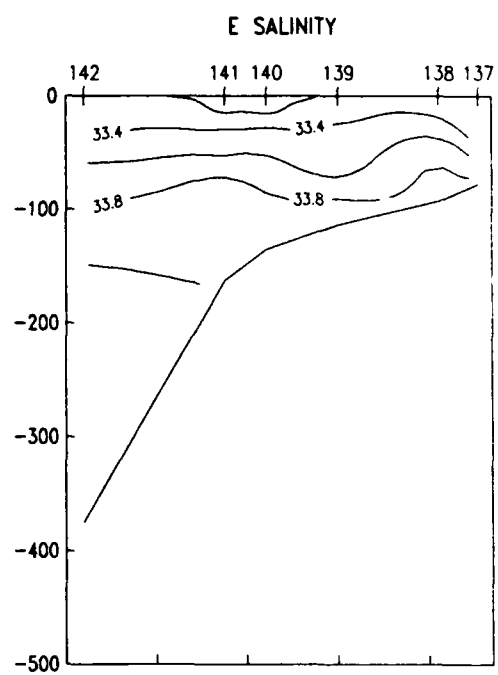
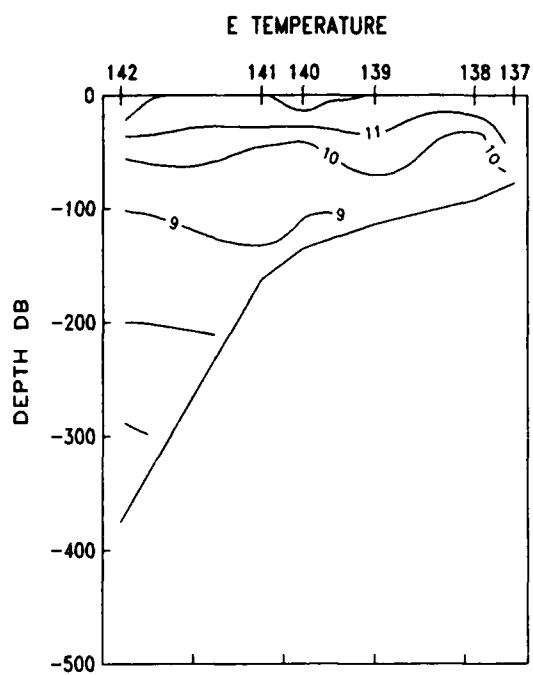
C LIGHT



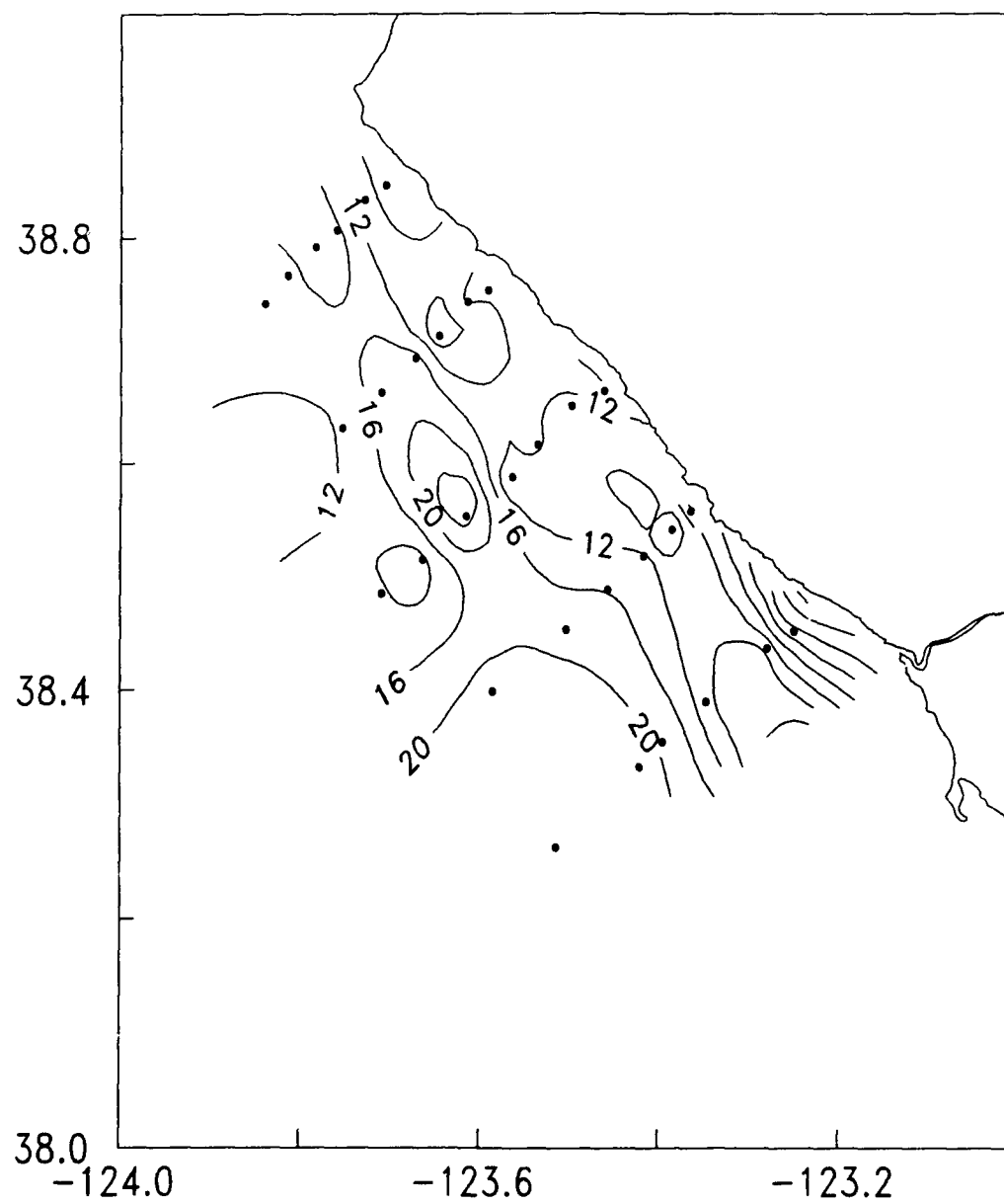






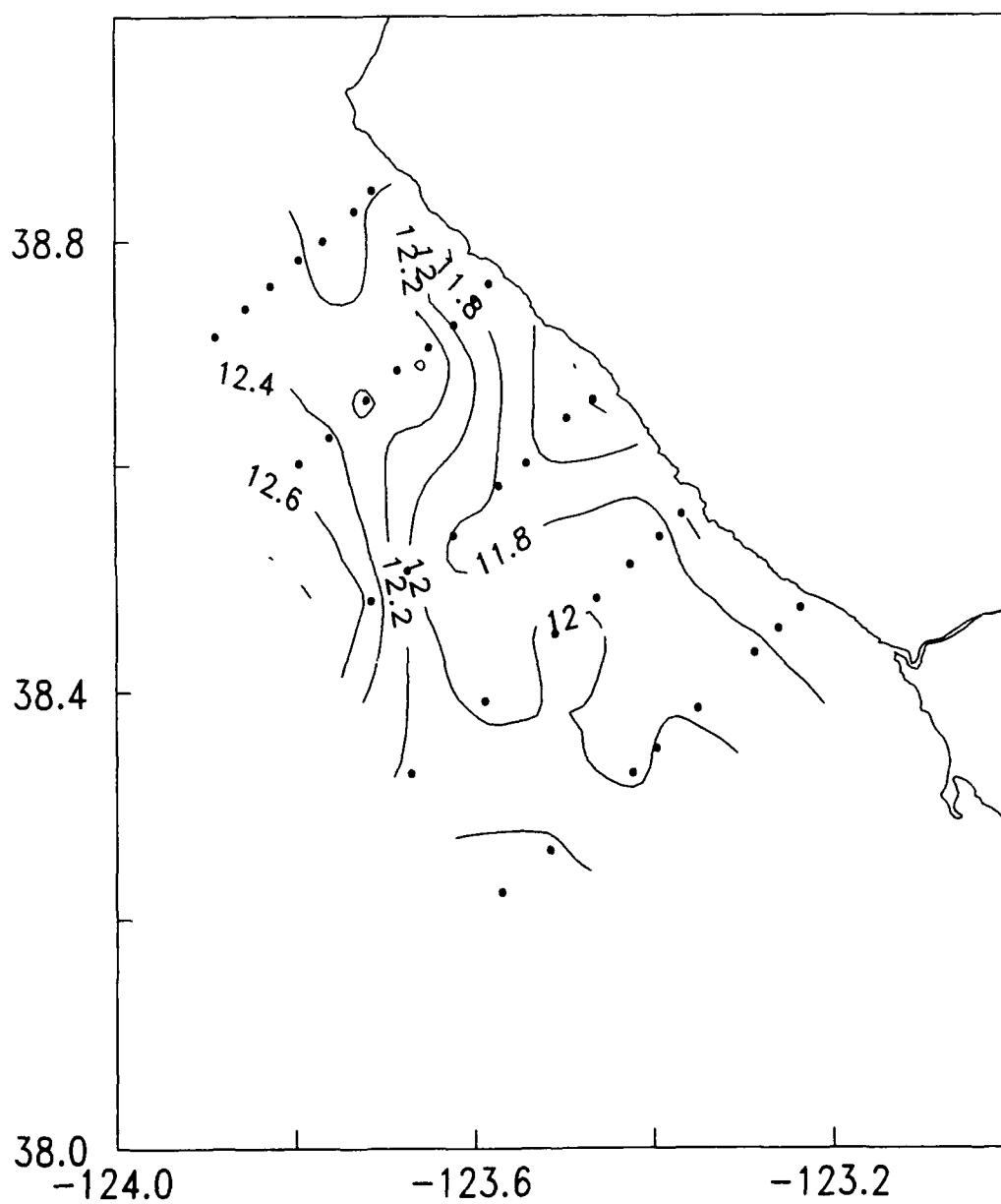


SURFACE MIXED LAYER DEPTH M NOV 22-23, 1988

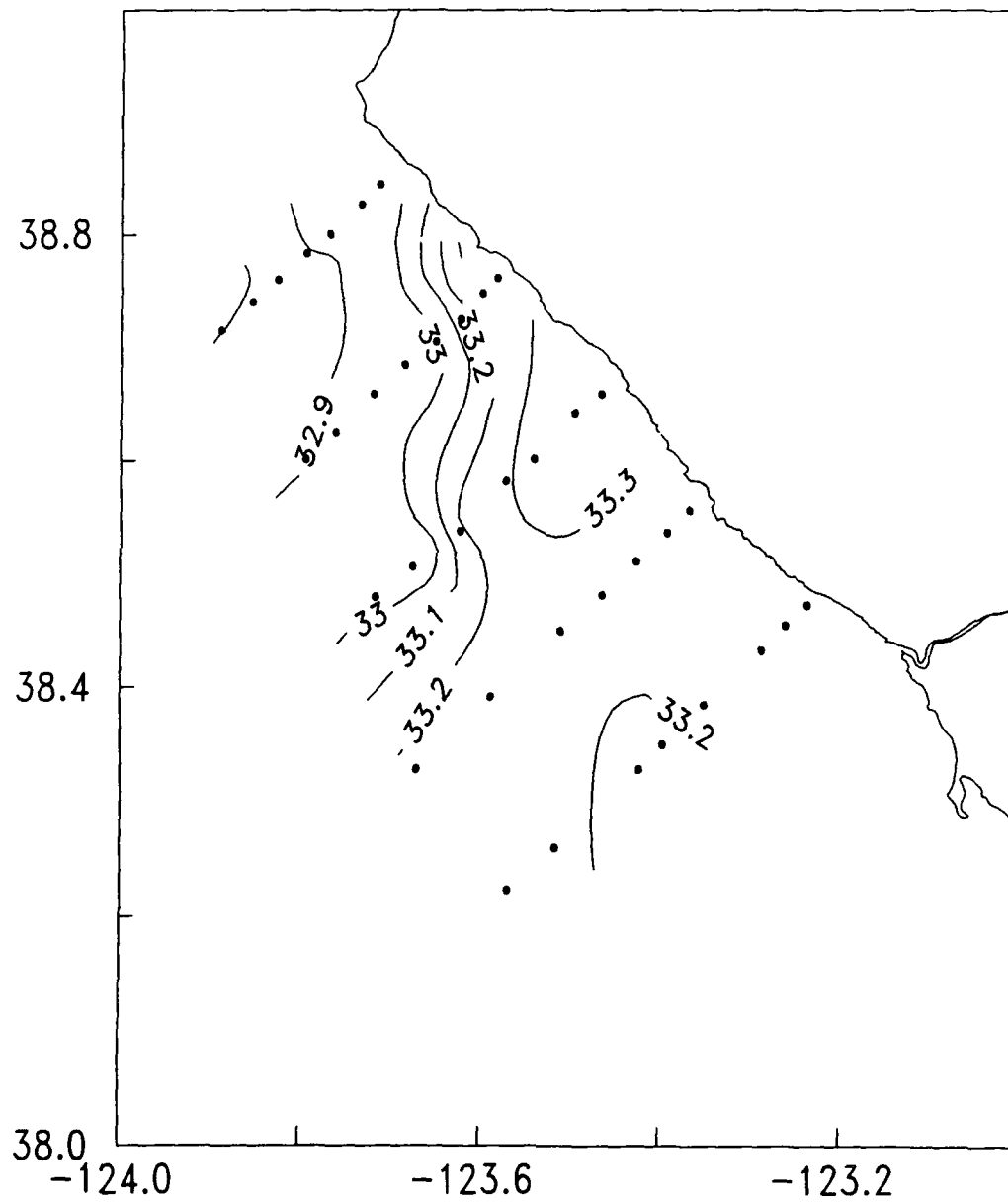




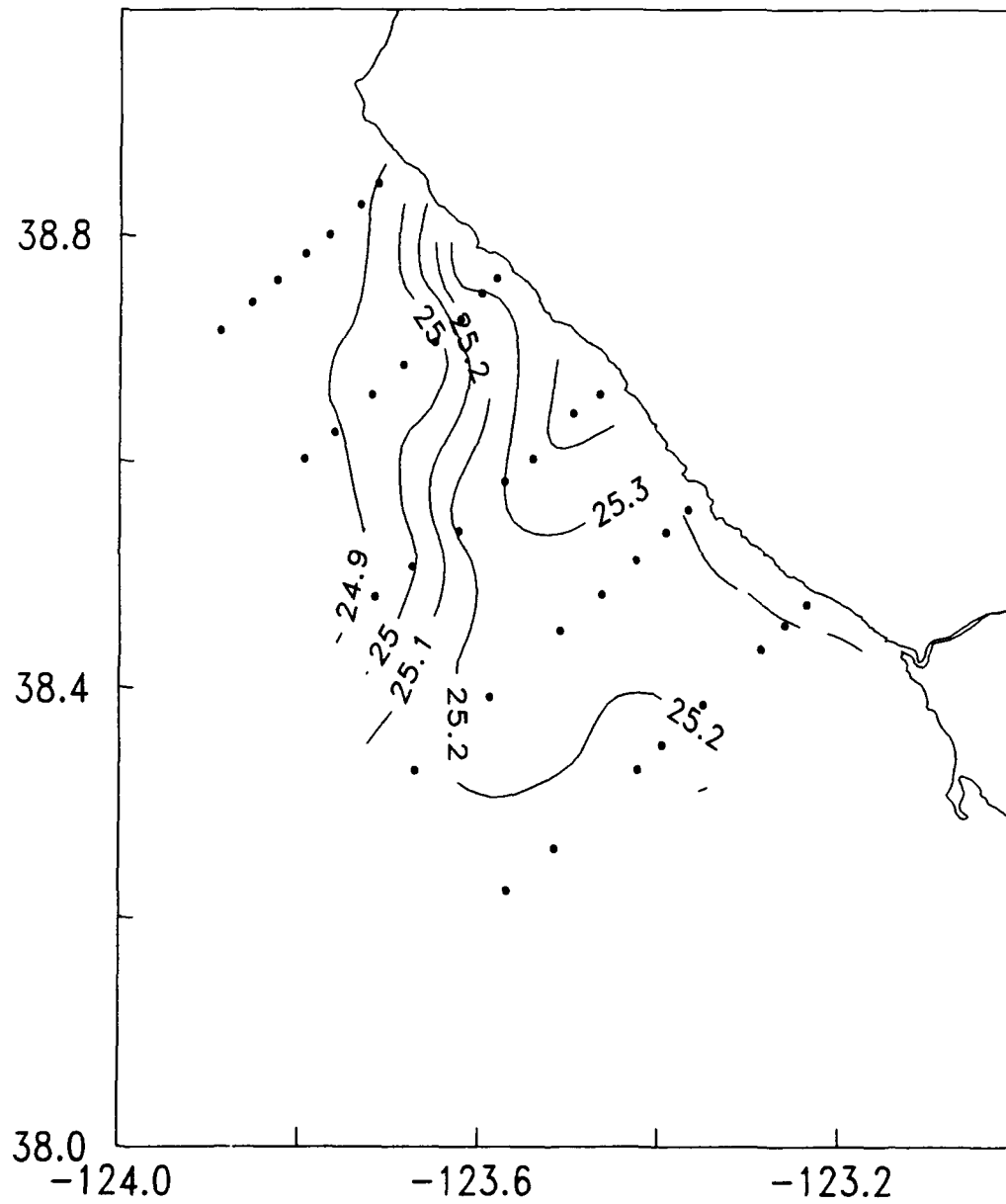
SURFACE TEMP NOV 22-23 1988



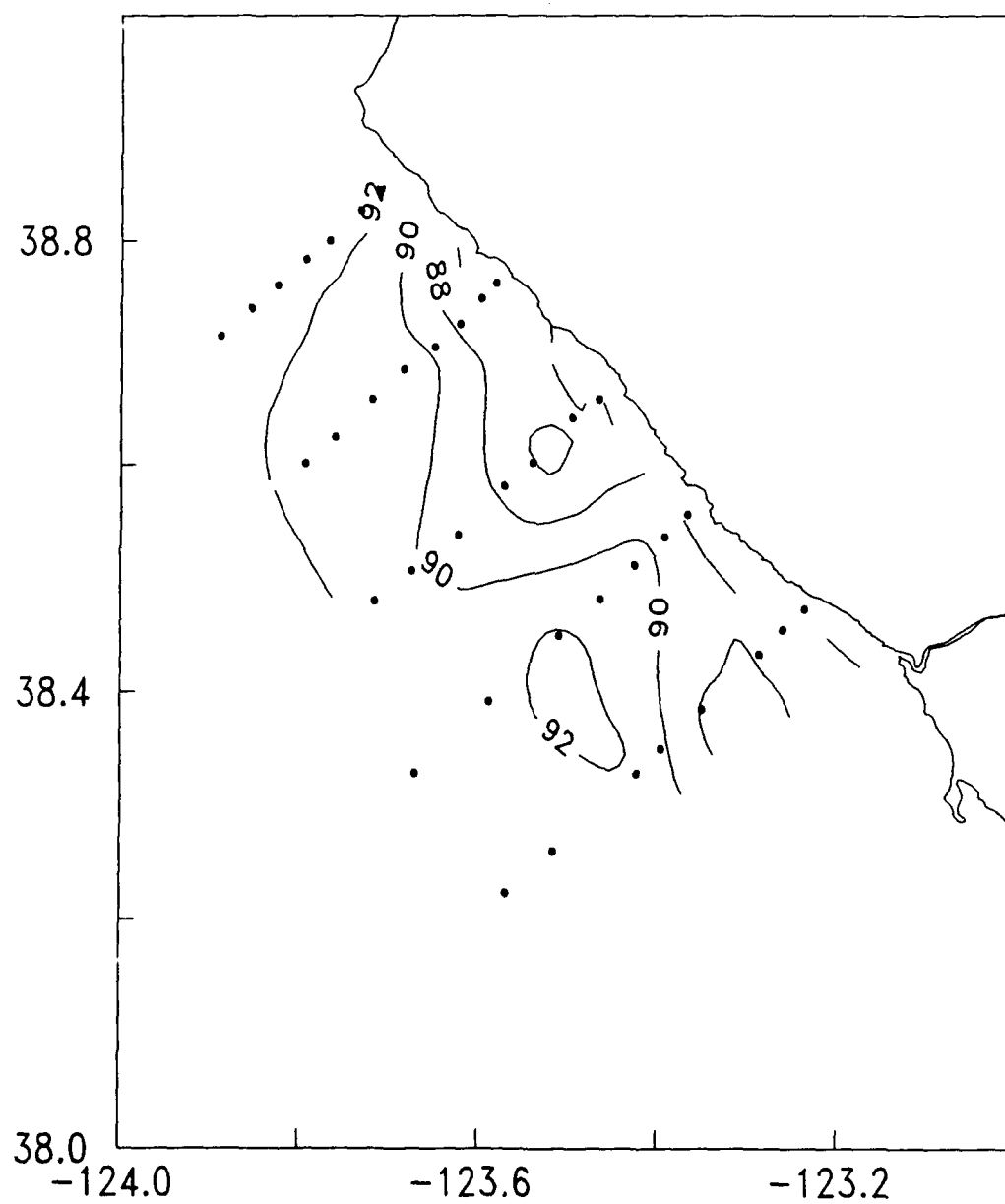
SURFACE SALT NOV 22-23 1988



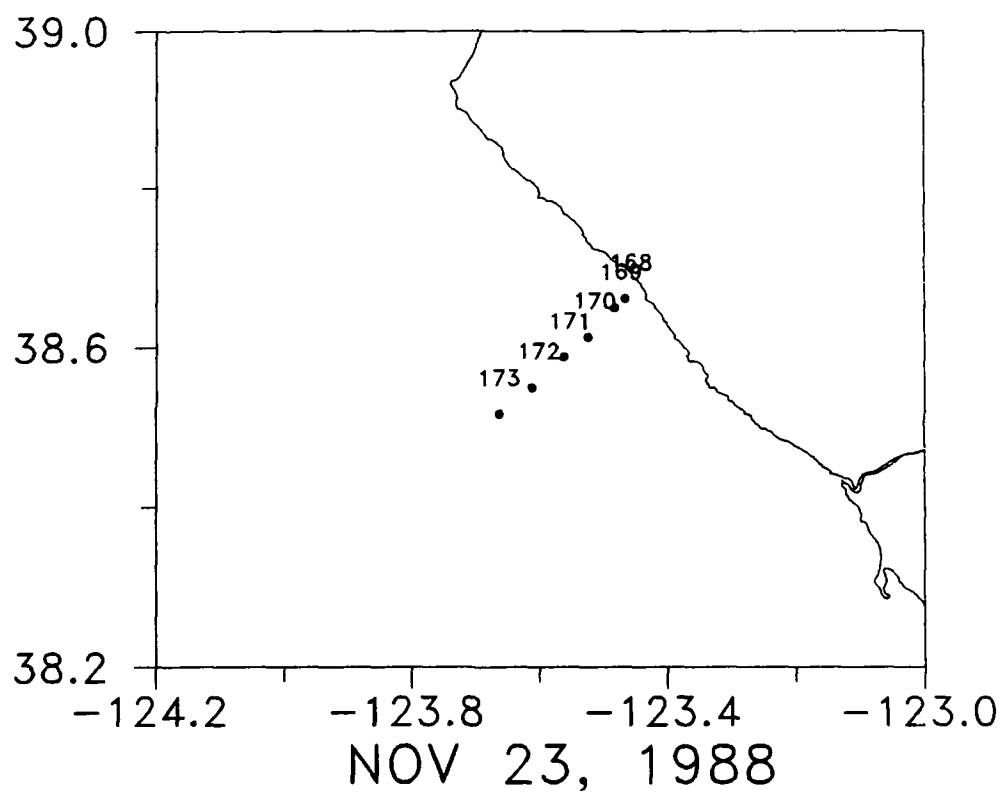
SURFACE SIGMAT NOV 22-23 1988

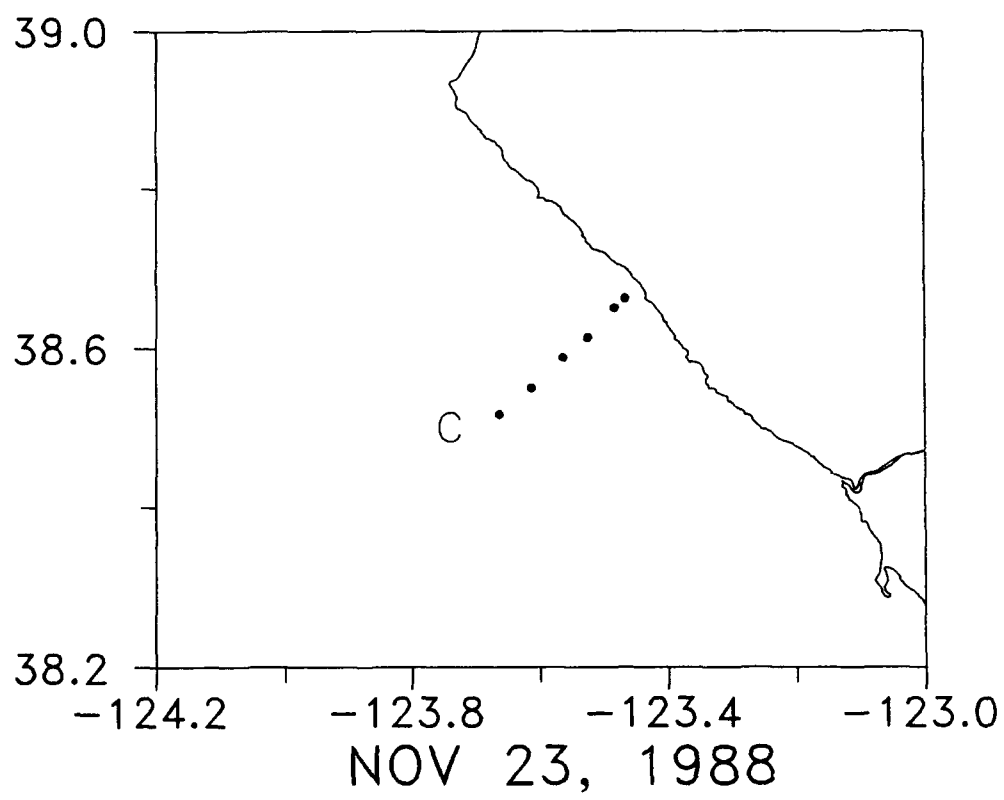


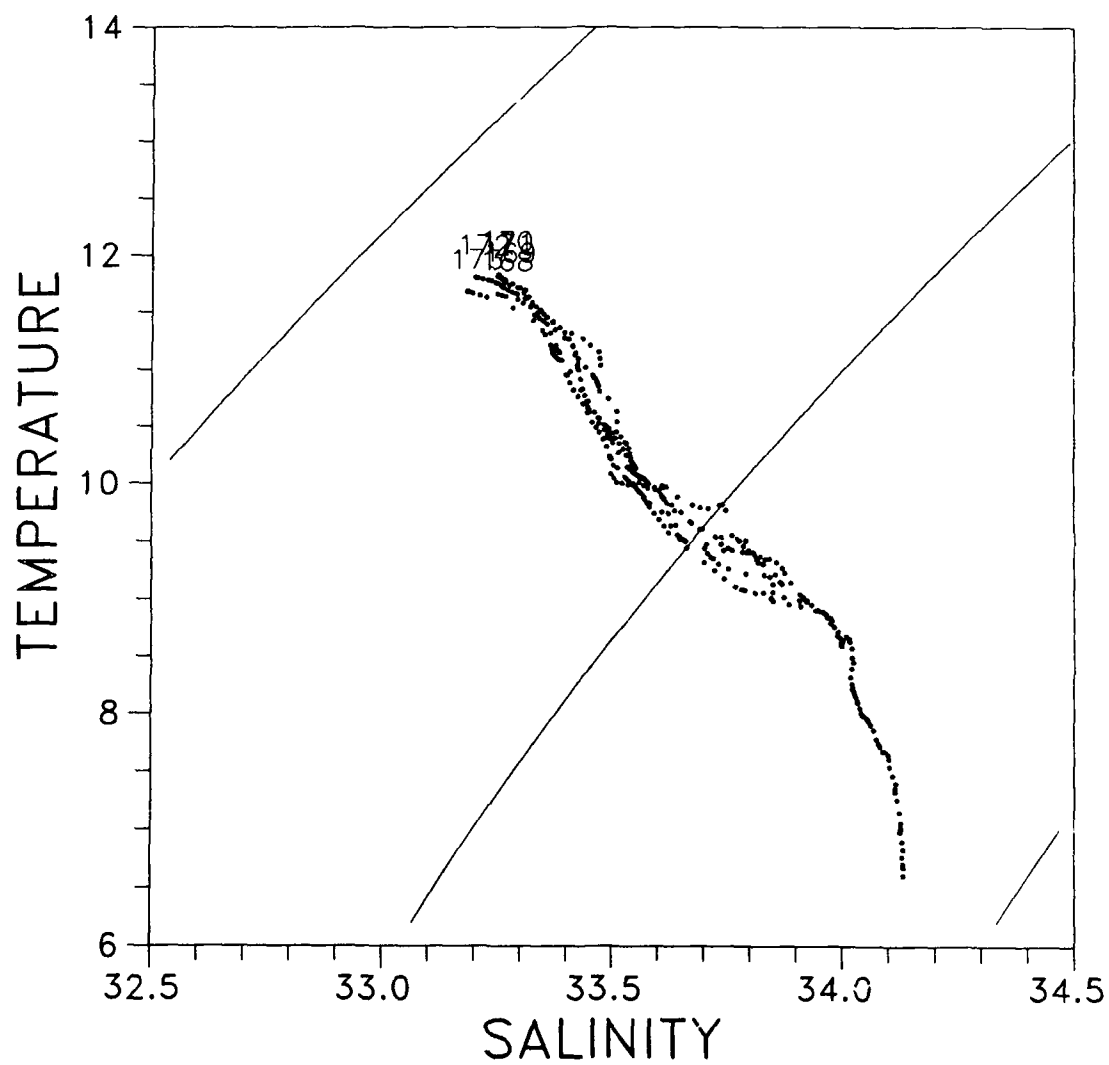
SURFACE LIGHT NOV 22-23 1988



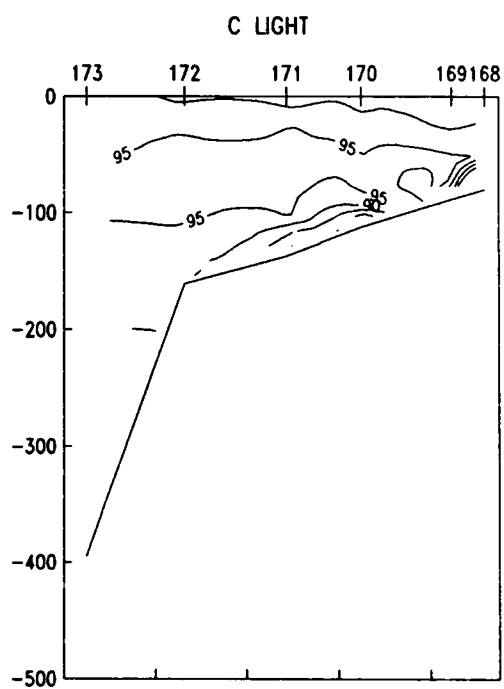
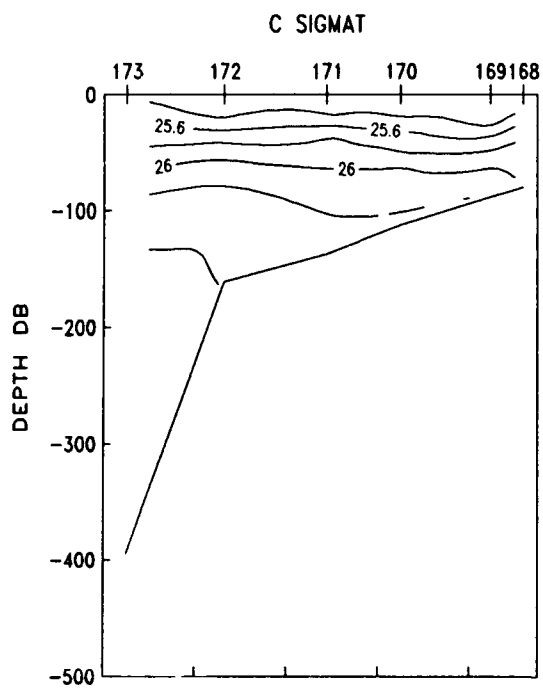
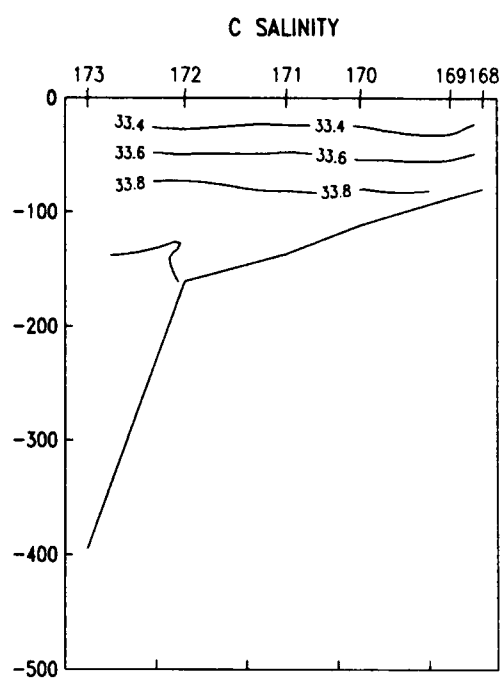
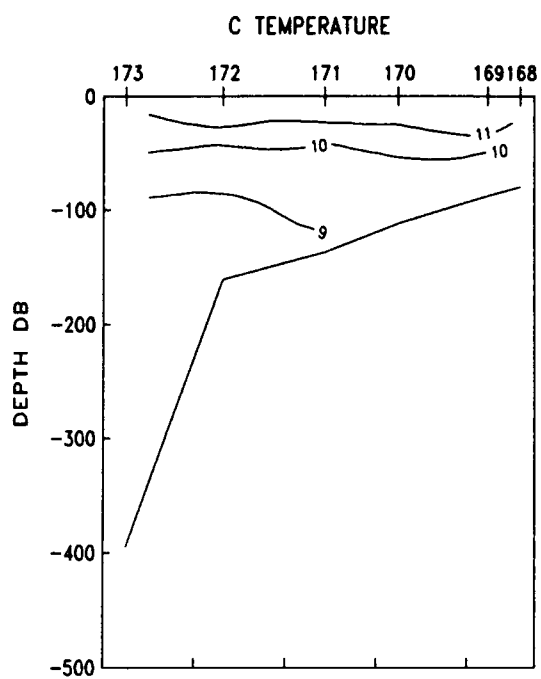
**G. Section C – Nov 23, 1988 – Stations 168 to 173**





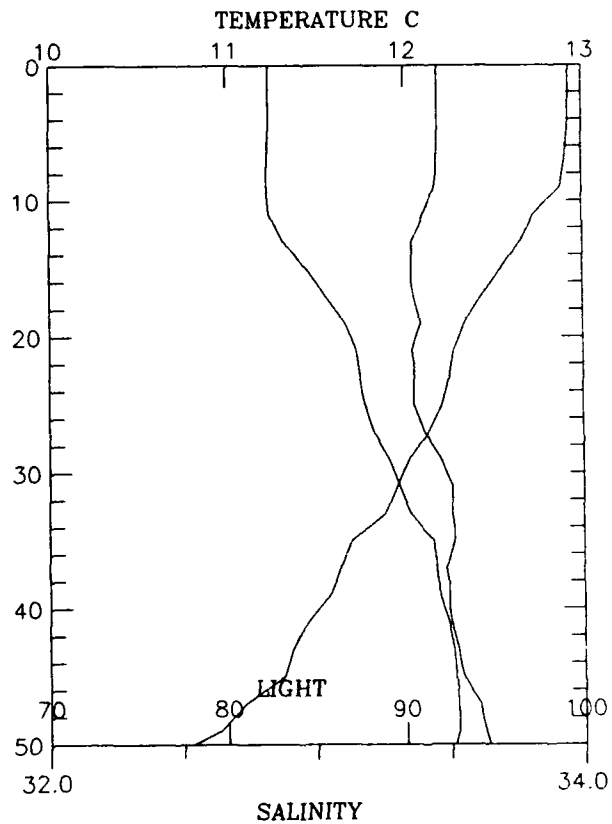
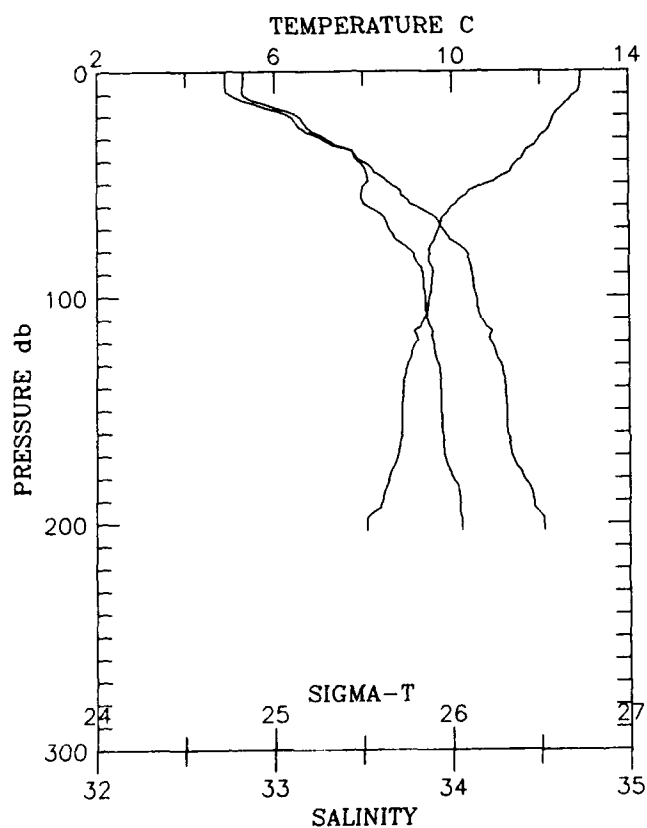






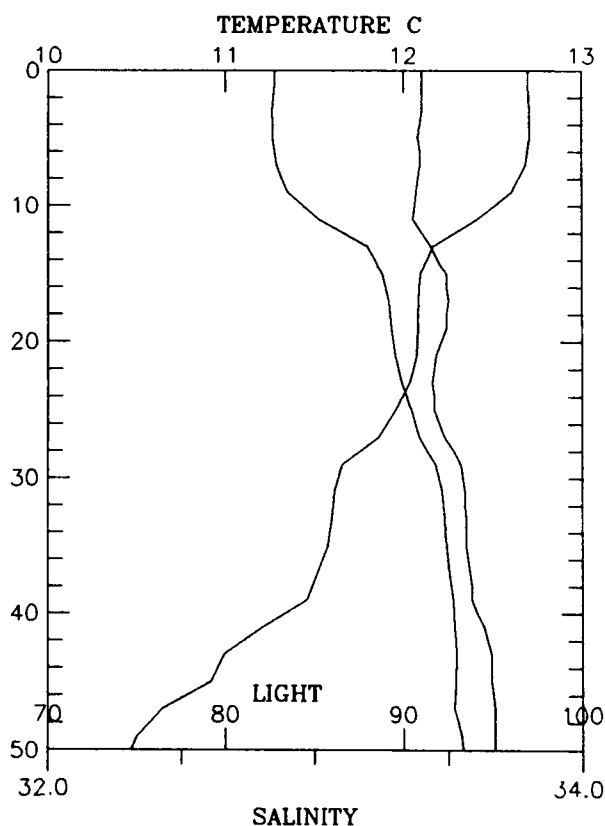
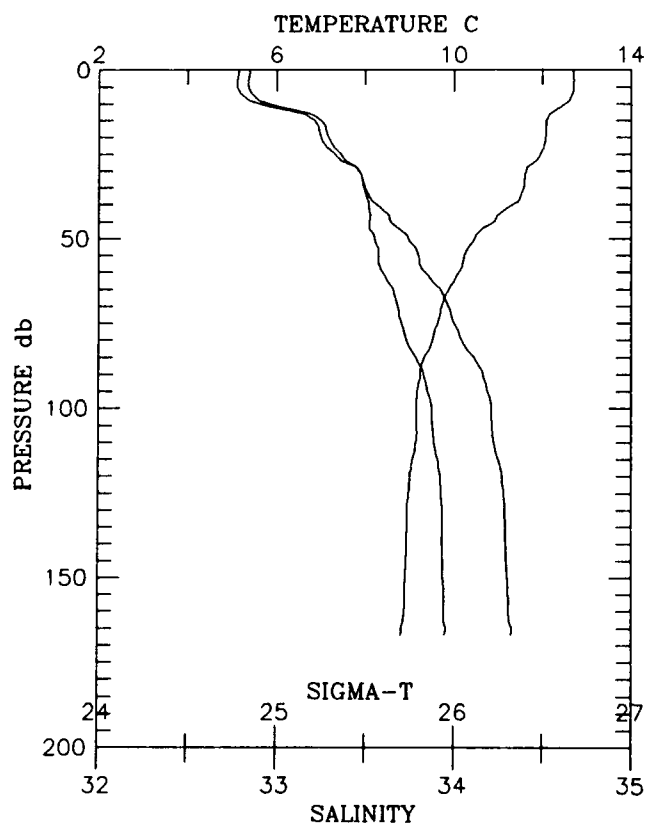
Cruise W8811 Station # 1 Depth m: 230 Time: 15 NOV 1988, 336  
 Position: 38 44.60'N 123 50.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.927	32.826	24.724	0.0000	91.9
10.0	12.804	32.824	24.746	0.0291	91.4
20.0	12.303	33.131	25.081	0.0598	90.6
30.0	11.985	33.291	25.265	0.0881	92.3
40.0	11.509	33.474	25.496	0.1142	92.4
50.0	10.802	33.513	25.653	0.1385	94.6
60.0	10.026	33.528	25.799	0.1615	95.7
70.0	9.696	33.646	25.946	0.1829	95.7
80.0	9.484	33.768	26.076	0.2032	94.0
90.0	9.573	33.838	26.116	0.2226	92.2
100.0	9.500	33.851	26.138	0.2419	92.1
110.0	9.361	33.864	26.171	0.2609	93.1
120.0	9.191	33.895	26.222	0.2794	94.1
130.0	8.983	33.924	26.278	0.2975	94.4
140.0	8.906	33.938	26.302	0.3152	94.4
150.0	8.879	33.941	26.309	0.3328	94.7
160.0	8.860	33.945	26.315	0.3503	94.5
170.0	8.771	33.958	26.339	0.3678	94.7
180.0	8.570	34.005	26.406	0.3848	96.1
190.0	8.419	34.042	26.459	0.4012	96.2
200.0	8.080	34.054	26.519	0.4171	96.3
203.0	8.077	34.054	26.520	0.4218	96.3



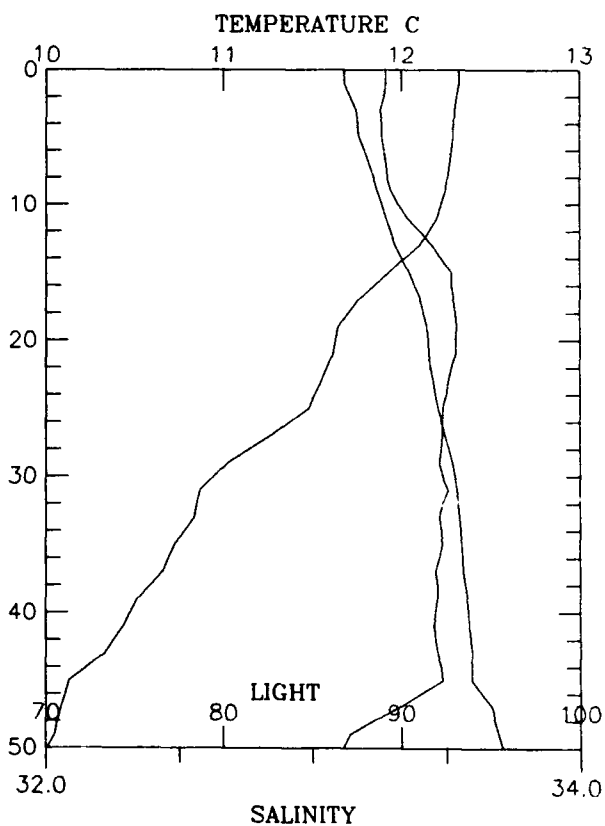
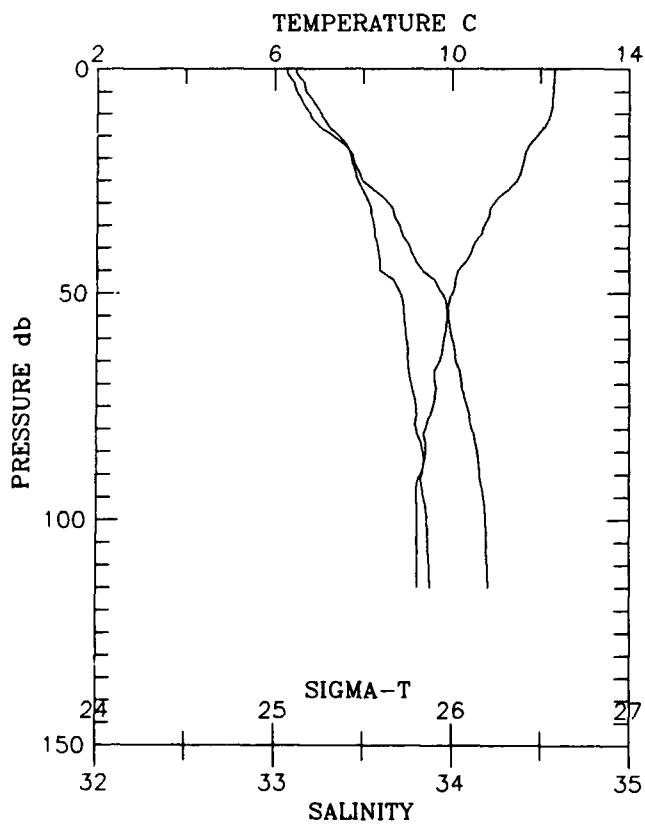
Cruise W8811 Station # 2 Depth m: 192 Time: 15 NOV 1988, 422  
 Position: 38 45.90'N 123 49.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.698	32.850	24.787	0.0000	91.0
10.0	12.508	32.958	24.907	0.0284	90.6
20.0	12.075	33.293	25.250	0.0567	92.1
30.0	11.632	33.463	25.465	0.0833	93.3
40.0	11.334	33.520	25.564	0.1083	94.1
50.0	10.465	33.554	25.744	0.1319	95.1
60.0	10.116	33.599	25.839	0.1542	95.1
70.0	9.729	33.683	25.969	0.1754	95.0
80.0	9.518	33.733	26.043	0.1957	94.3
90.0	9.242	33.831	26.165	0.2151	94.7
100.0	9.160	33.876	26.213	0.2337	90.6
110.0	9.149	33.889	26.225	0.2521	94.0
120.0	9.017	33.923	26.272	0.2701	90.6
130.0	8.961	33.934	26.290	0.2879	88.6
140.0	8.946	33.936	26.294	0.3056	89.4
150.0	8.913	33.941	26.303	0.3233	88.6
160.0	8.891	33.945	26.310	0.3409	88.5
167.0	8.817	33.951	26.326	0.3531	88.2



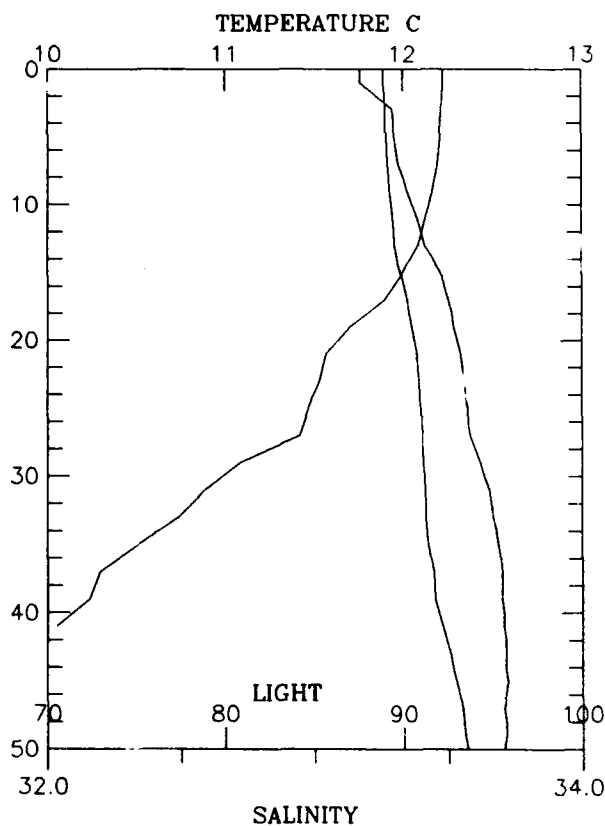
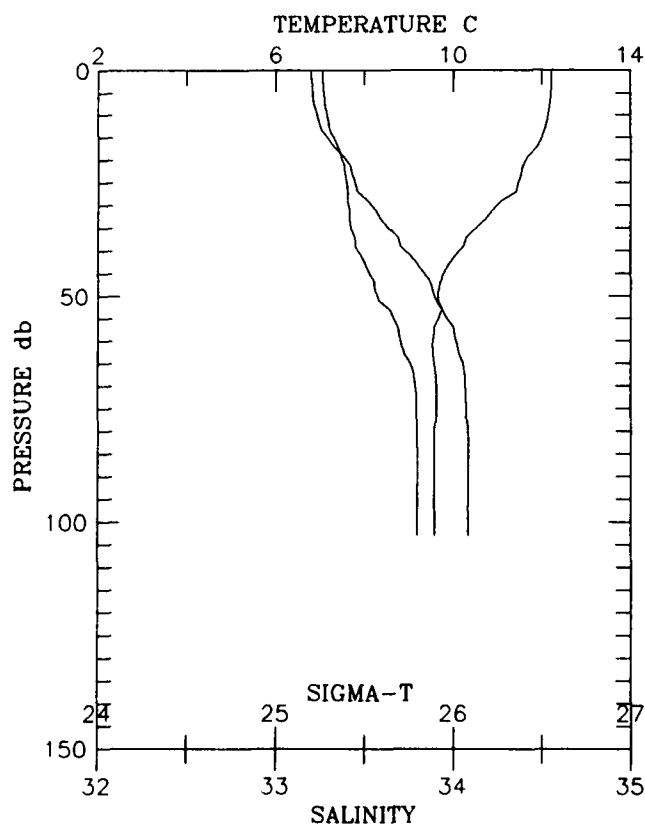
Cruise W8811 Station # 3 Depth m: 130 Time: 15 NOV 1988, 503  
 Position: 38 47.30'N 123 46.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.322	33.120	25.069	0.0000	89.1
10.0	12.222	33.260	25.196	0.0256	89.8
20.0	11.629	33.431	25.440	0.0523	93.0
30.0	10.944	33.532	25.643	0.0772	92.3
40.0	10.474	33.582	25.765	0.1003	91.9
50.0	10.004	33.708	25.943	0.1221	86.7
60.0	9.821	33.744	26.001	0.1427	87.3
70.0	9.625	33.771	26.055	0.1628	89.2
80.0	9.405	33.801	26.115	0.1823	92.3
90.0	9.289	33.829	26.156	0.2014	92.4
100.0	9.214	33.860	26.191	0.2201	88.0
110.0	9.224	33.873	26.200	0.2387	83.3
115.0	9.212	33.878	26.206	0.2480	82.5



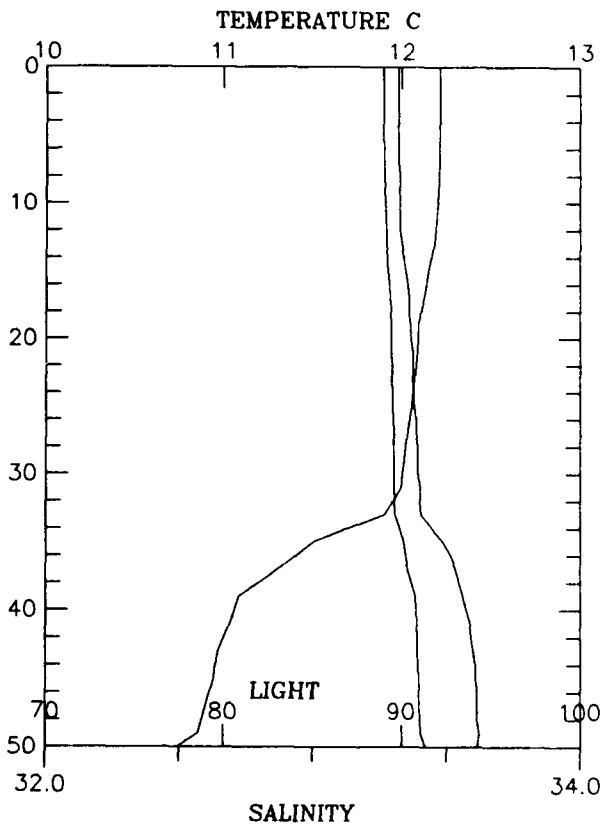
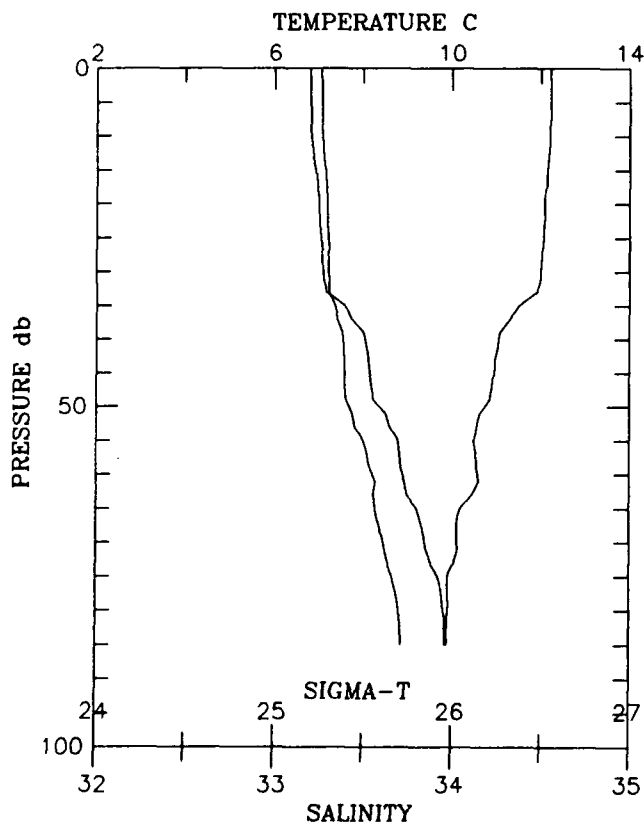
Cruise W8811 Station # 4 Depth m: 117 Time: 15 NOV 1988, 543  
 Position: 38 48.50'N 123 45.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.225	33.261	25.197	0.0000	87.6
10.0	12.144	33.288	25.233	0.0250	90.5
20.0	11.635	33.374	25.395	0.0519	93.0
30.0	10.985	33.410	25.540	0.0774	94.5
40.0	10.142	33.464	25.729	0.1012	95.6
50.0	9.655	33.571	25.894	0.1231	95.6
60.0	9.542	33.702	26.015	0.1438	90.8
70.0	9.622	33.786	26.068	0.1637	77.2
80.0	9.568	33.794	26.083	0.1834	78.0
90.0	9.573	33.797	26.084	0.2030	77.3
100.0	9.580	33.799	26.084	0.2226	77.4
103.0	9.582	33.798	26.084	0.2285	77.7



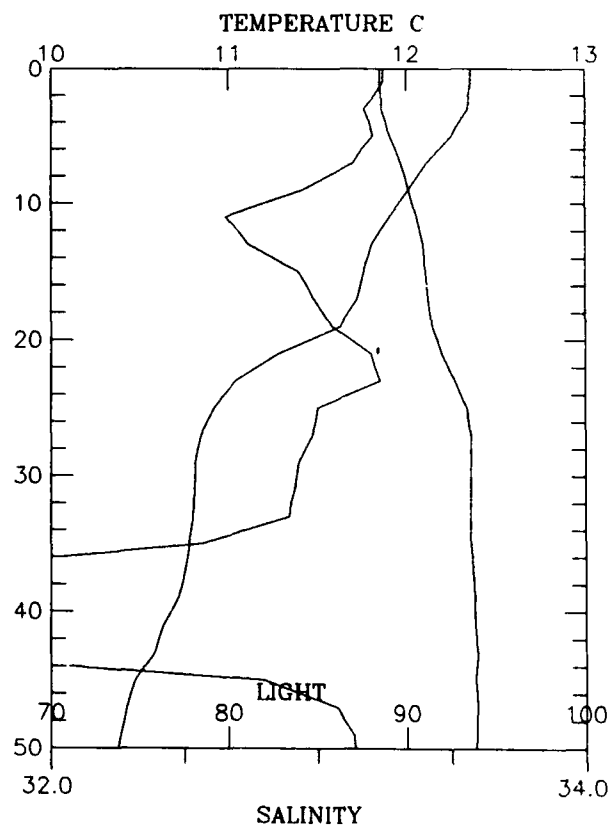
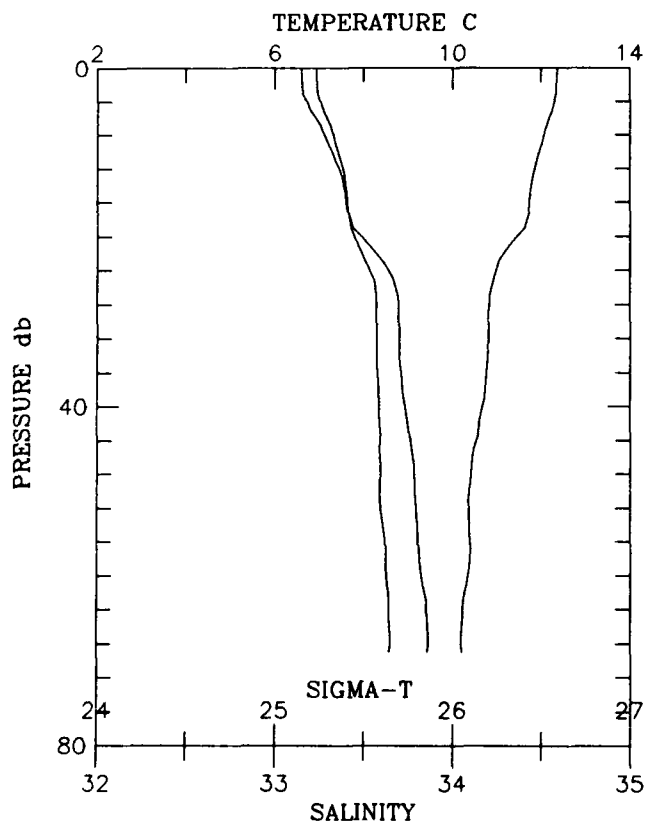
Cruise W8811 Station # 5 Depth m: 91 Time: 15 NOV 1988, 615  
 Position: 38 50.10'N 123 43.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.215	33.264	25.201	0.0000	89.8
5.0	12.213	33.265	25.202	0.0111	89.8
10.0	12.201	33.271	25.209	0.0250	89.9
15.0	12.149	33.283	25.229	0.0389	90.2
20.0	12.090	33.294	25.248	0.0526	90.5
25.0	12.058	33.299	25.258	0.0663	90.7
30.0	12.005	33.304	25.272	0.0800	90.9
35.0	11.507	33.341	25.393	0.0934	92.3
40.0	11.061	33.386	25.509	0.1062	93.6
45.0	10.944	33.395	25.536	0.1186	94.1
50.0	10.742	33.421	25.592	0.1309	94.2
55.0	10.501	33.504	25.699	0.1427	94.1
60.0	10.582	33.554	25.724	0.1543	91.3
65.0	10.191	33.571	25.804	0.1657	91.7
70.0	10.126	33.616	25.850	0.1767	90.6
75.0	9.911	33.666	25.926	0.1874	86.6
80.0	9.915	33.704	25.954	0.1979	78.1
85.0	9.907	33.717	25.966	0.2083	74.6



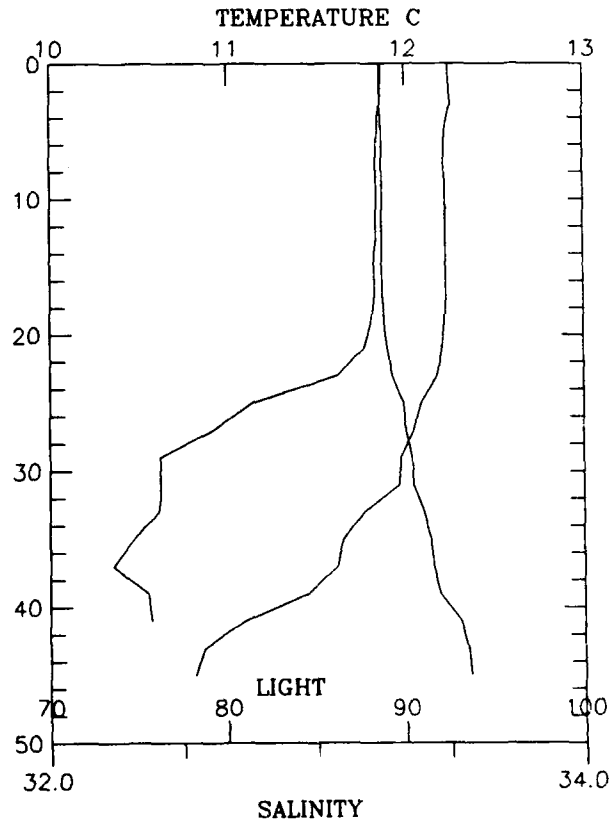
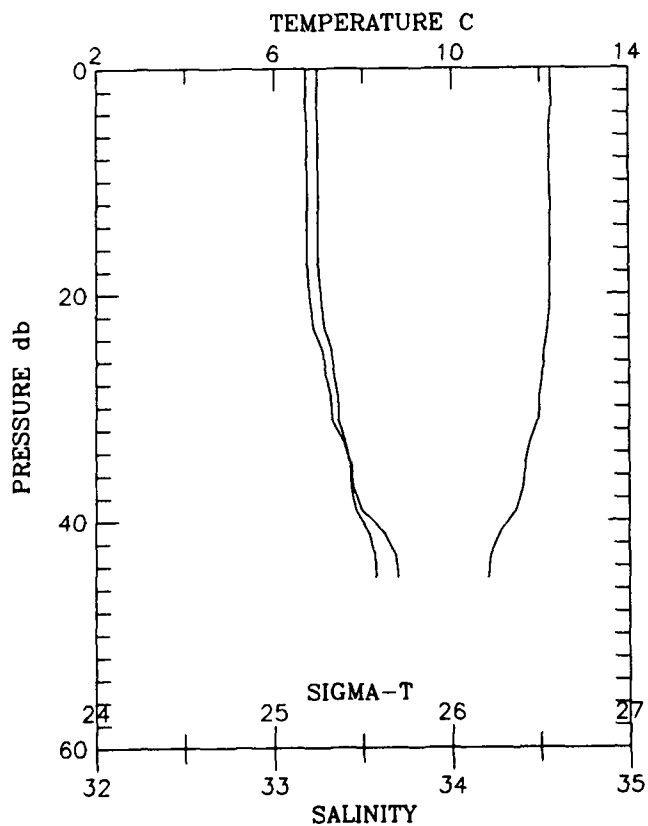
Cruise W8811 Station # 6 Depth m: 76 Time: 15 NOV 1988, 645  
 Position: 38 50.90'N 123 42.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.359	33.234	25.150	0.0000	88.7
5.0	12.248	33.270	25.199	0.0113	88.1
10.0	11.955	33.355	25.320	0.0249	82.0
15.0	11.758	33.404	25.396	0.0380	83.9
20.0	11.451	33.446	25.485	0.0509	86.9
25.0	10.917	33.558	25.668	0.0630	85.0
30.0	10.808	33.572	25.698	0.0747	83.8
35.0	10.777	33.572	25.704	0.0862	78.5
40.0	10.674	33.586	25.733	0.0977	55.9
45.0	10.470	33.588	25.770	0.1091	81.9
50.0	10.375	33.590	25.787	0.1203	87.1
55.0	10.387	33.615	25.805	0.1314	82.3
60.0	10.337	33.627	25.823	0.1425	76.0
65.0	10.221	33.643	25.856	0.1534	72.4
69.0	10.206	33.646	25.860	0.1621	73.7



Cruise W8811 Station # 7 Depth m: 53 Time: 15 NOV 1988, 709  
 Position: 38 51.70'N 123 41.20'W Depth Deck Offset: 0.00

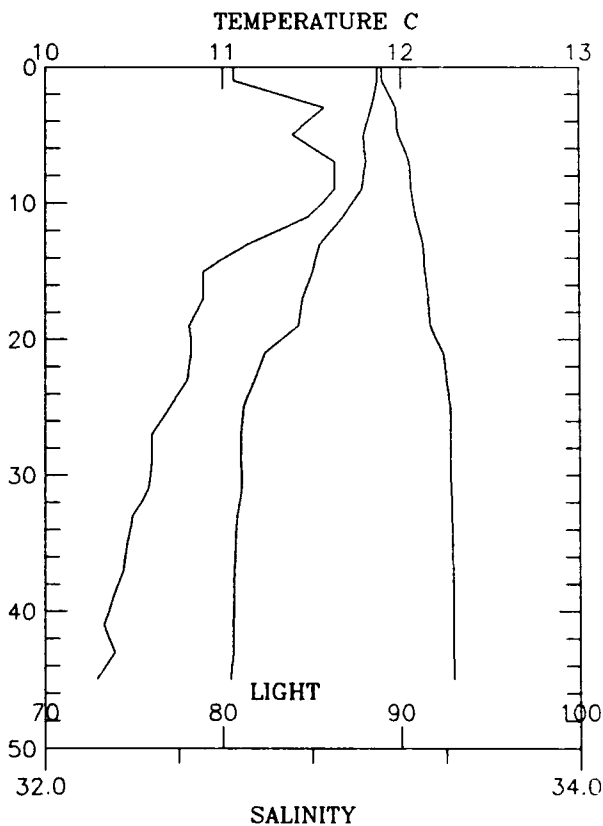
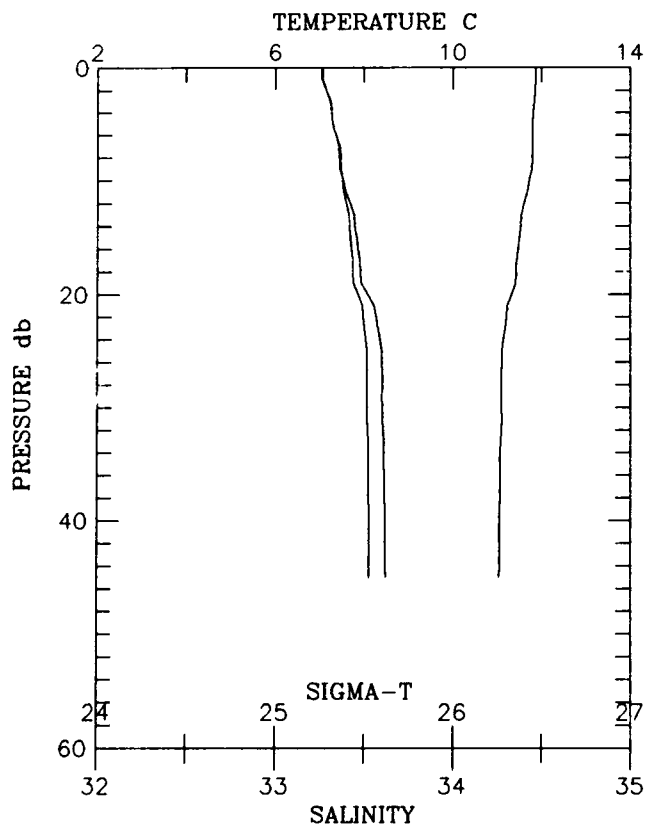
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.245	33.245	25.180	0.0000	88.6
5.0	12.224	33.248	25.187	0.0112	88.5
10.0	12.225	33.249	25.187	0.0252	88.4
15.0	12.230	33.248	25.186	0.0392	88.3
20.0	12.215	33.261	25.199	0.0532	87.9
25.0	12.087	33.325	25.273	0.0670	81.4
30.0	11.967	33.359	25.322	0.0805	76.2
35.0	11.648	33.427	25.433	0.0936	74.7
40.0	11.271	33.497	25.557	0.1063	75.6
45.0	10.814	33.573	25.698	0.1181	52.5





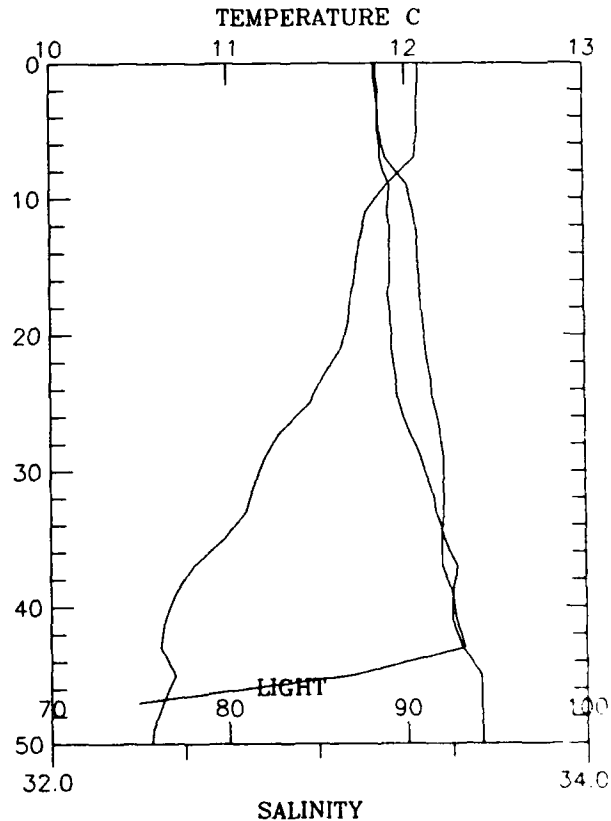
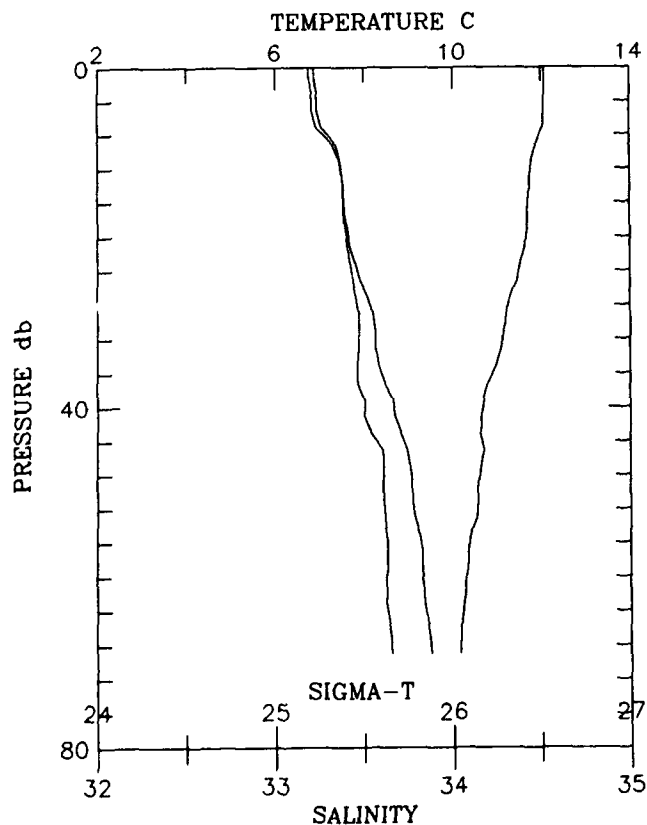
Cruise W8811 Station # 8 Depth m: 54 Time: 15 NOV 1988, 839  
 Position: 38 46.00'N 123 34.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.869	33.262	25.265	0.0000	80.6
5.0	11.790	33.323	25.326	0.0107	83.9
10.0	11.728	33.380	25.382	0.0239	85.6
15.0	11.503	33.423	25.457	0.0368	78.9
20.0	11.329	33.465	25.522	0.0494	78.2
25.0	11.114	33.517	25.601	0.0616	77.0
30.0	11.104	33.518	25.604	0.0736	75.9
35.0	11.070	33.524	25.614	0.0856	74.6
40.0	11.059	33.527	25.618	0.0976	73.6
45.0	11.043	33.529	25.623	0.1096	72.9



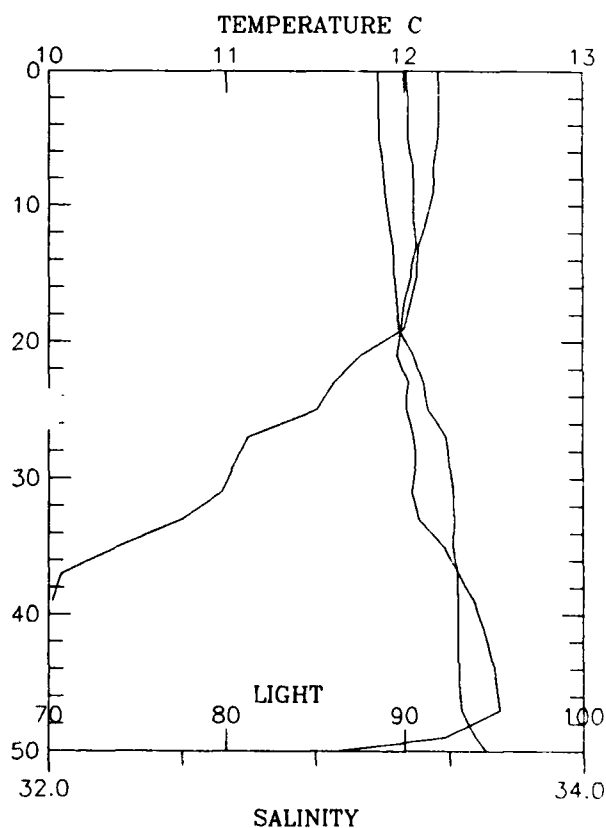
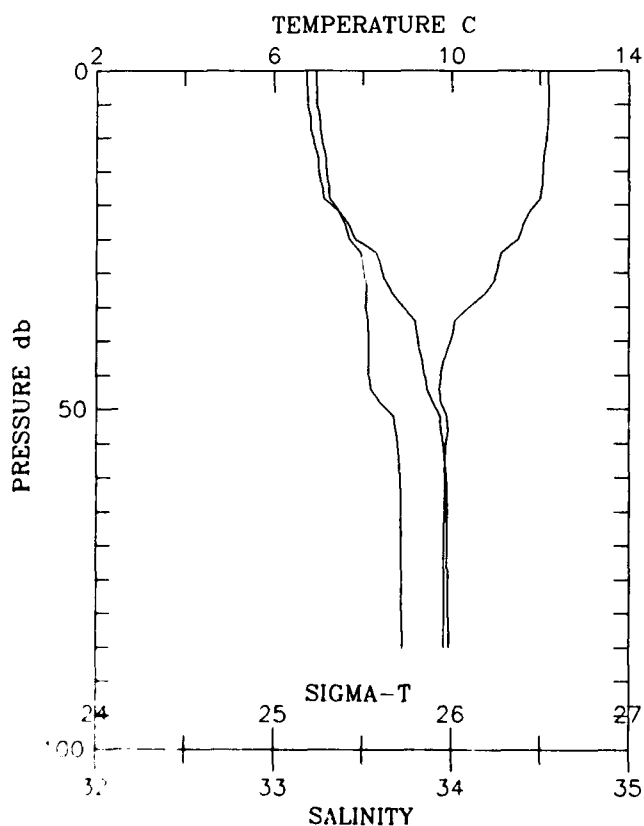
Cruise W8811 Station # 9 Depth m: 78 Time: 15 NOV 1988, 907  
 Position: 38 45.20'N 123 35.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.077	33.218	25.191	0.0000	88.4
5.0	12.070	33.238	25.208	0.0111	88.5
10.0	11.840	33.353	25.340	0.0247	89.1
15.0	11.722	33.382	25.385	0.0379	89.1
20.0	11.656	33.400	25.411	0.0509	89.2
25.0	11.457	33.436	25.476	0.0637	89.6
30.0	11.175	33.472	25.555	0.0761	91.0
35.0	10.975	33.463	25.584	0.0883	92.1
40.0	10.669	33.501	25.667	0.1002	92.6
45.0	10.696	33.606	25.744	0.1118	86.9
50.0	10.563	33.610	25.771	0.1231	60.7
55.0	10.395	33.627	25.813	0.1343	72.6
60.0	10.302	33.628	25.830	0.1453	81.7
65.0	10.199	33.638	25.855	0.1563	75.7
69.0	10.162	33.656	25.876	0.1649	55.2



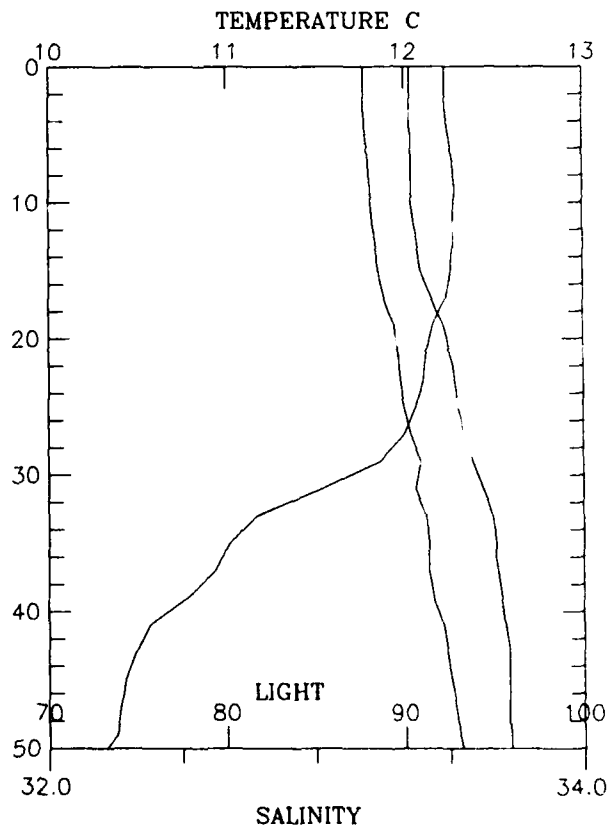
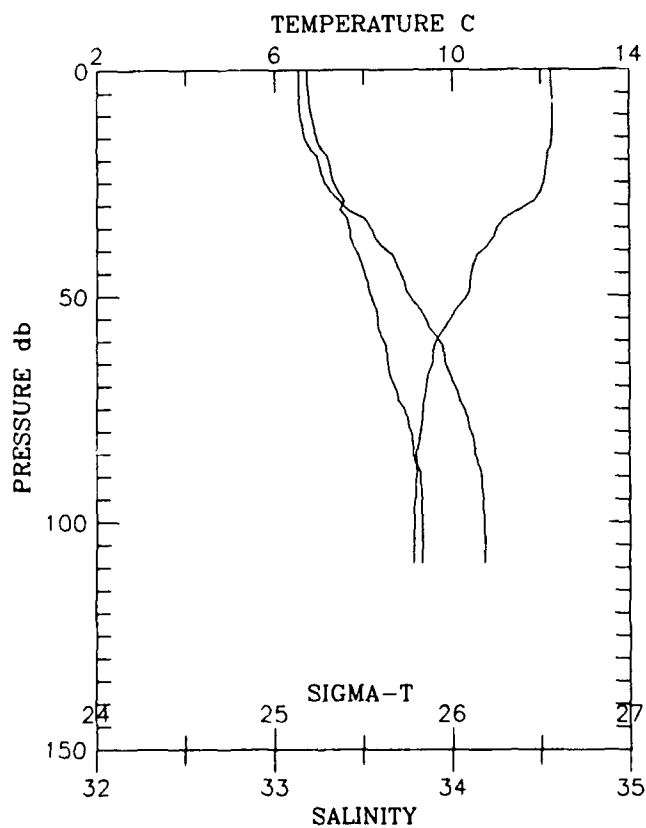
Cruise W8811 Station # 10 Depth m: 93 Time: 15 NOV 1988, 933  
 Position: 38 45.20'N 123 36.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.192	33.236	25.184	0.0000	90.1
5.0	12.189	33.238	25.186	0.0112	90.2
10.0	12.145	33.268	25.217	0.0251	90.5
15.0	12.072	33.294	25.251	0.0389	90.4
20.0	11.878	33.338	25.322	0.0524	89.7
25.0	11.509	33.421	25.454	0.0654	90.1
30.0	11.009	33.507	25.612	0.0777	90.5
35.0	10.389	33.515	25.727	0.0894	92.2
40.0	9.970	33.532	25.811	0.1006	94.1
45.0	9.757	33.534	25.849	0.1116	95.1
50.0	9.823	33.635	25.916	0.1223	86.2
55.0	9.881	33.698	25.955	0.1328	66.1
60.0	9.849	33.710	25.970	0.1431	67.5
65.0	9.840	33.715	25.976	0.1534	70.1
70.0	9.838	33.716	25.977	0.1637	68.7
75.0	9.836	33.718	25.979	0.1740	72.3
80.0	9.832	33.720	25.981	0.1843	70.4
85.0	9.822	33.724	25.986	0.1946	73.0



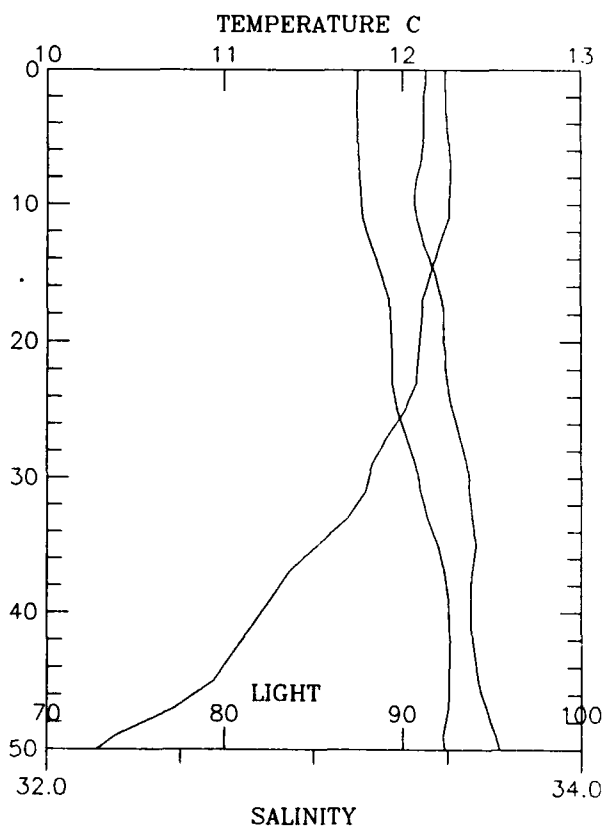
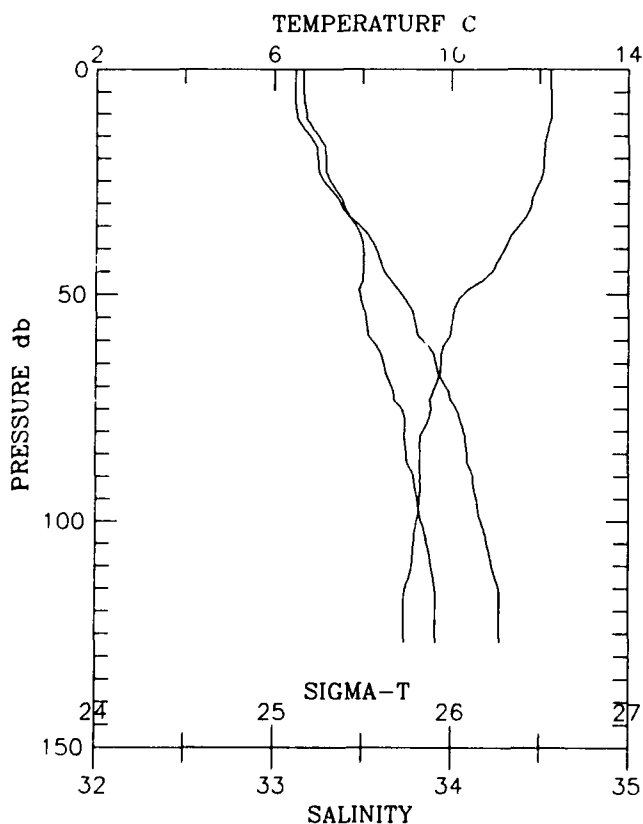
Cruise W8811 Station # 11 Depth m: 117 Time: 15 NOV 1988,1009  
 Position: 38 42.70'N 123 38.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.228	33.183	25.136	0.0000	90.3
10.0	12.278	33.210	25.147	0.0256	90.4
20.0	12.141	33.302	25.245	0.0536	92.4
30.0	11.698	33.384	25.391	0.0806	94.1
40.0	10.670	33.458	25.633	0.1054	95.5
50.0	10.320	33.543	25.761	0.1285	95.9
60.0	9.646	33.615	25.930	0.1503	96.1
70.0	9.408	33.674	26.015	0.1710	96.0
80.0	9.291	33.768	26.107	0.1907	95.9
90.0	9.195	33.820	26.164	0.2098	88.1
100.0	9.146	33.831	26.180	0.2286	71.7
109.0	9.138	33.832	26.182	0.2454	67.9



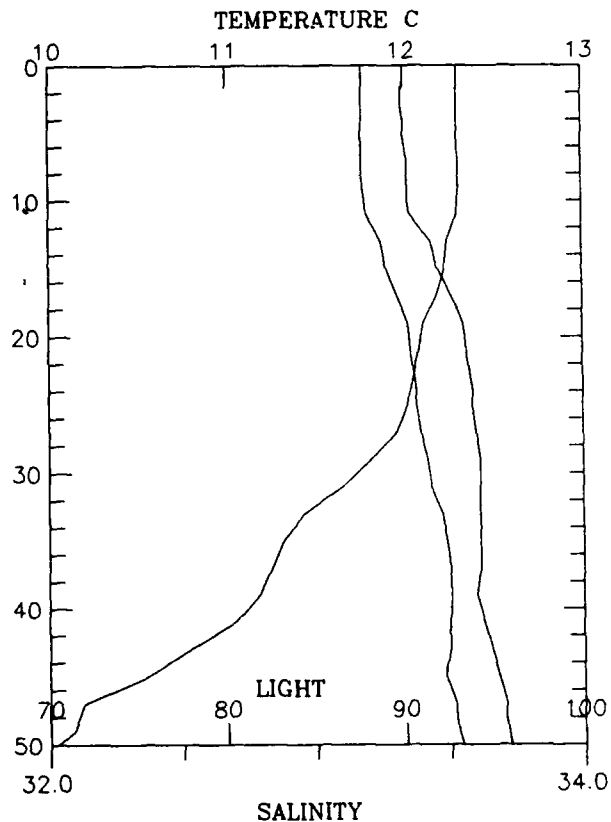
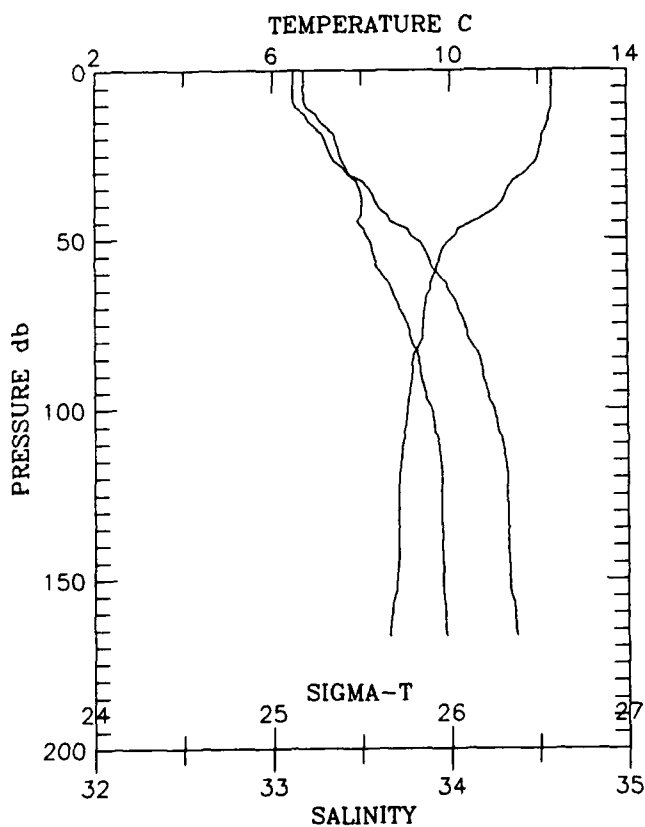
Cruise W8811 Station # 12 Depth m: 135 Time: 15 NOV 1988,1040  
 Position: 38 41.50'N 123 40.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.240	33.165	25.119	0.0000	91.3
10.0	12.262	33.181	25.127	0.0258	90.7
20.0	12.094	33.291	25.245	0.0537	92.3
30.0	11.811	33.390	25.375	0.0807	93.7
40.0	11.208	33.504	25.574	0.1060	93.8
50.0	10.284	33.487	25.723	0.1297	95.4
60.0	9.899	33.554	25.840	0.1521	95.7
70.0	9.639	33.664	25.969	0.1733	96.1
80.0	9.365	33.739	26.072	0.1935	96.1
90.0	9.301	33.787	26.120	0.2130	96.0
100.0	9.224	33.832	26.168	0.2321	95.7
110.0	9.111	33.889	26.231	0.2506	94.5
120.0	8.943	33.912	26.276	0.2685	83.1
127.0	8.943	33.912	26.276	0.2810	82.6



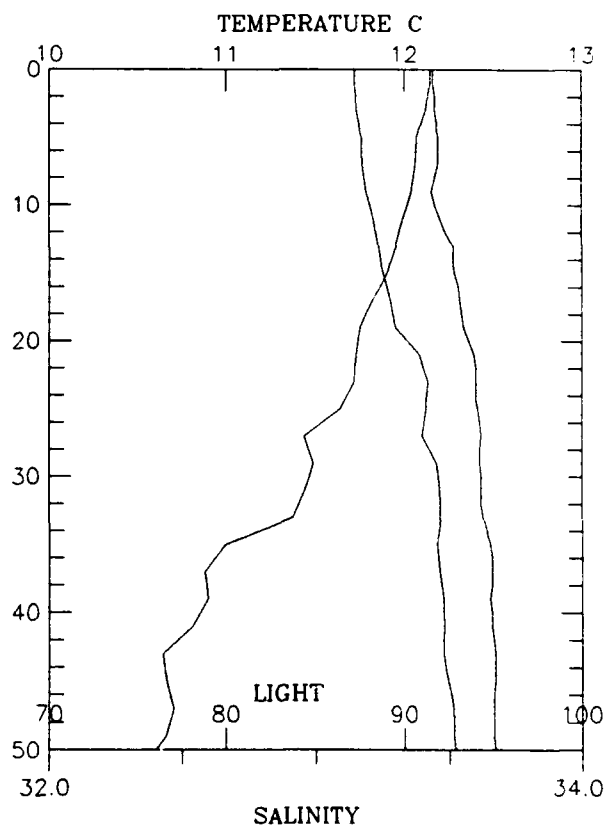
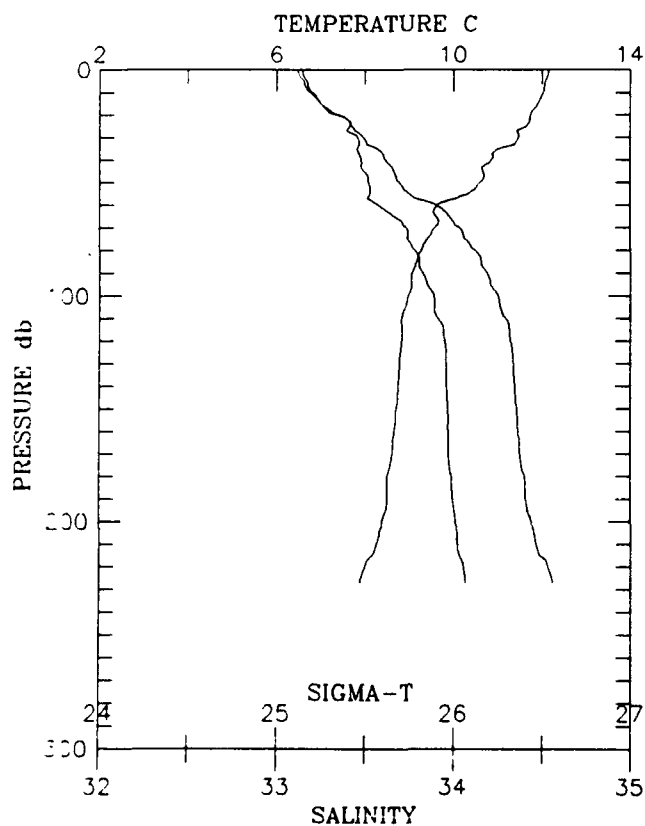
Cruise W8811 Station # 14 Depth m: 177 Time: 15 NOV 1988,1126  
 Position: 38 39.80'N 123 42.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.302	33.177	25.117	0.0000	90.0
10.0	12.302	33.186	25.124	0.0258	90.2
20.0	12.095	33.353	25.293	0.0536	93.4
30.0	11.730	33.424	25.416	0.0801	94.2
40.0	11.113	33.502	25.589	0.1050	94.2
50.0	10.040	33.541	25.806	0.1282	95.8
60.0	9.648	33.607	25.923	0.1498	96.0
70.0	9.428	33.712	26.042	0.1702	96.1
80.0	9.345	33.782	26.110	0.1899	96.1
90.0	9.137	33.834	26.184	0.2087	96.1
100.0	9.034	33.895	26.247	0.2271	95.9
110.0	8.925	33.933	26.295	0.2450	95.5
120.0	8.844	33.950	26.321	0.2625	91.2
130.0	8.835	33.952	26.324	0.2799	90.3
140.0	8.833	33.952	26.324	0.2973	90.2
150.0	8.792	33.957	26.335	0.3147	90.5
160.0	8.675	33.969	26.362	0.3319	89.2
167.0	8.620	33.976	26.376	0.3438	89.0



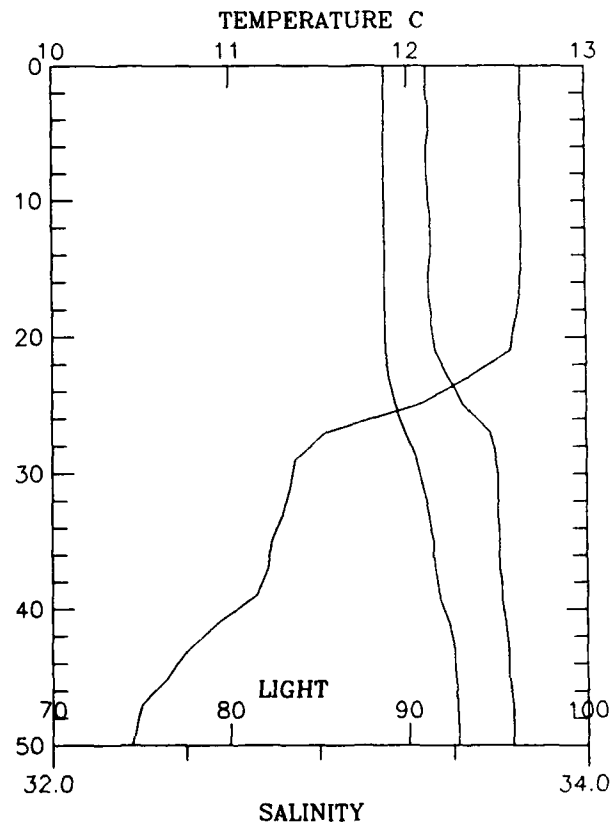
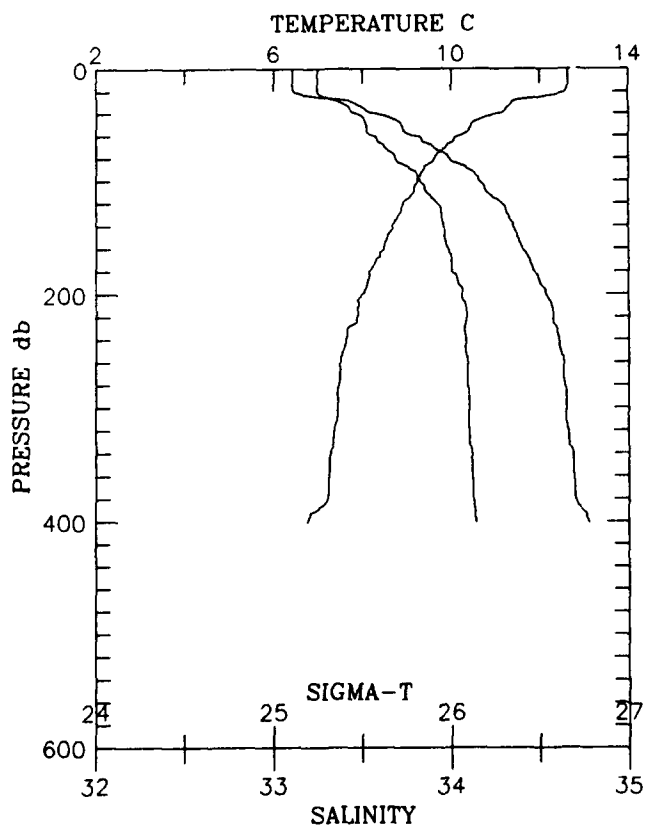
Cruise W8811 Station # 15 Depth m: 305 Time: 15 NOV 1988,1210  
 Position: 38 38.00'N 123 45.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.146	33.146	25.122	0.0000	91.6
10.0	12.016	33.204	25.192	0.0255	91.7
20.0	11.736	33.344	25.353	0.0528	93.6
30.0	11.464	33.458	25.492	0.0785	94.3
40.0	10.854	33.478	25.617	0.1030	94.9
50.0	10.602	33.522	25.695	0.1265	95.1
60.0	9.641	33.576	25.900	0.1491	96.1
80.0	9.269	33.782	26.122	0.1893	96.2
100.0	8.979	33.889	26.252	0.2266	96.1
150.0	8.707	33.970	26.358	0.3136	93.8
200.0	8.396	34.014	26.441	0.3979	94.3
227.0	7.891	34.067	26.557	0.4408	96.0



Cruise W8811 Station # 16 Depth m: 419 Time: 15 NOV 1988,1332  
 Position: 38 31.00'N 123 40.00'W Depth Deck Offset: 0.00

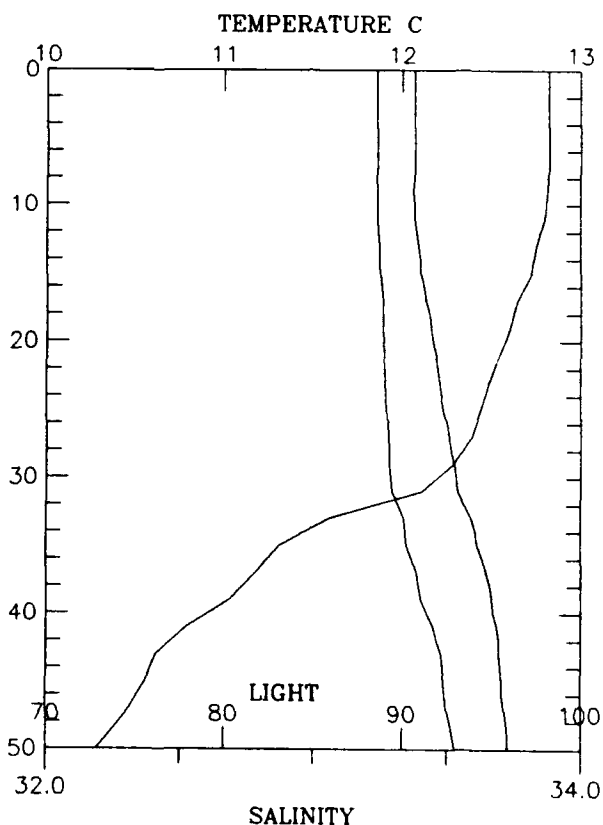
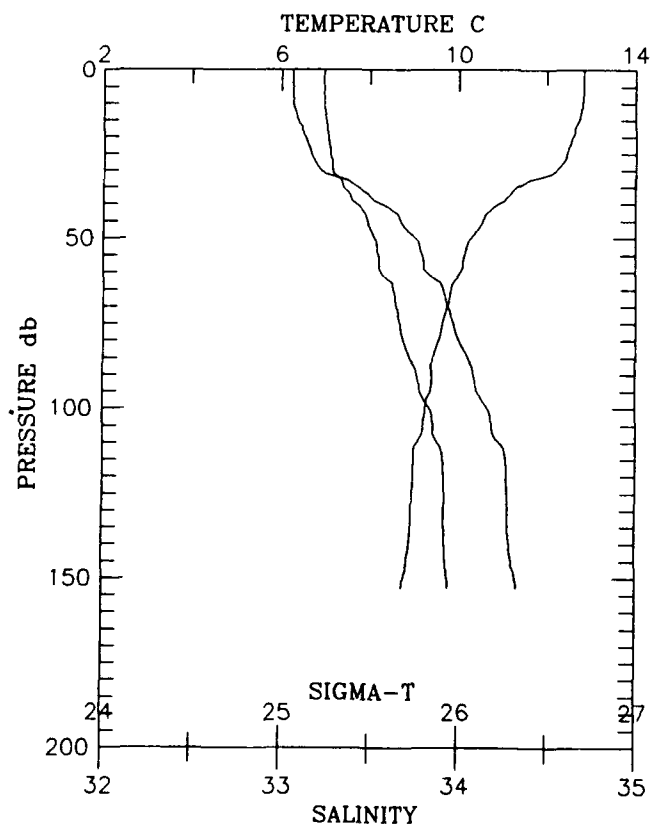
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.640	33.247	25.106	0.0000	91.1
10.0	12.637	33.247	25.107	0.0259	91.2
20.0	12.585	33.249	25.118	0.0546	91.4
30.0	11.351	33.377	25.449	0.0818	95.0
40.0	11.038	33.464	25.573	0.1068	95.3
50.0	10.448	33.518	25.719	0.1303	95.8
60.0	10.161	33.562	25.803	0.1531	96.0
80.0	9.618	33.686	25.990	0.1957	96.2
100.0	9.246	33.828	26.161	0.2348	96.2
150.0	8.556	33.963	26.376	0.3234	95.8
200.0	7.999	34.062	26.538	0.4044	96.0
250.0	7.548	34.079	26.617	0.4797	95.2
300.0	7.430	34.099	26.649	0.5527	95.2
400.0	6.759	34.140	26.775	0.6949	96.1
401.0	6.750	34.143	26.778	0.6963	96.1





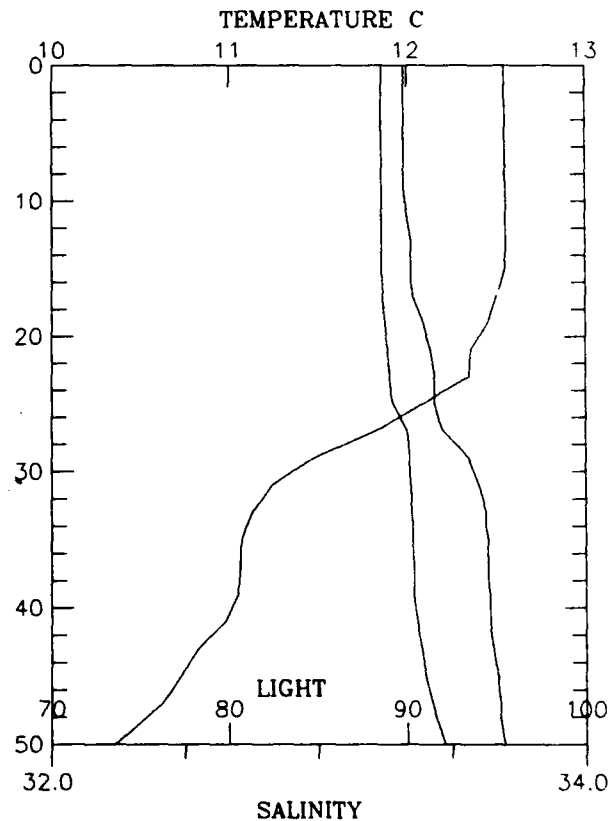
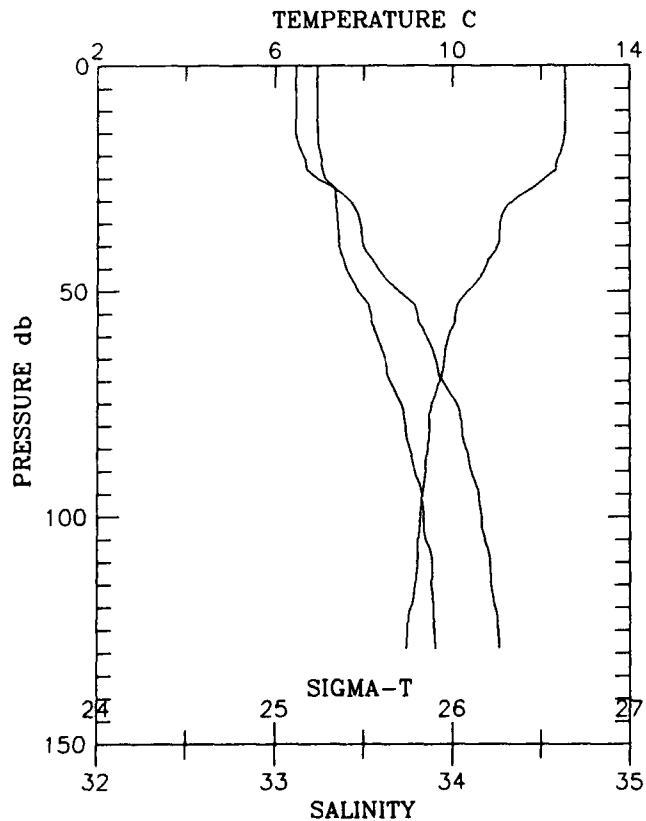
Cruise W8811 Station # 17 Depth m: 163 Time: 15 NOV 1988, 1430  
 Position: 38 33.10'N 123 36.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.822	33.239	25.064	0.0000	90.7
10.0	12.806	33.240	25.068	0.0262	90.7
20.0	12.573	33.262	25.130	0.0551	91.7
30.0	12.195	33.289	25.224	0.0833	93.0
40.0	10.910	33.425	25.565	0.1091	95.1
50.0	10.283	33.530	25.756	0.1326	95.9
60.0	10.052	33.565	25.823	0.1549	96.0
70.0	9.752	33.650	25.940	0.1762	95.7
80.0	9.552	33.689	26.003	0.1968	95.7
90.0	9.415	33.769	26.088	0.2167	95.3
100.0	9.270	33.841	26.168	0.2360	95.1
110.0	9.068	33.884	26.234	0.2546	95.4
120.0	8.984	33.920	26.275	0.2725	93.0
130.0	8.962	33.926	26.283	0.2904	92.0
140.0	8.917	33.930	26.294	0.3081	92.5
150.0	8.782	33.943	26.325	0.3257	92.5
153.0	8.740	33.946	26.334	0.3309	92.6



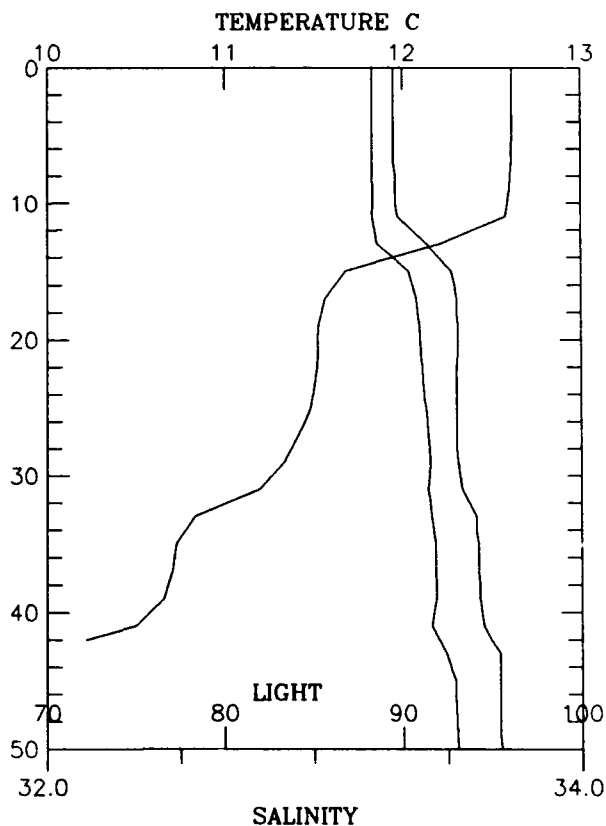
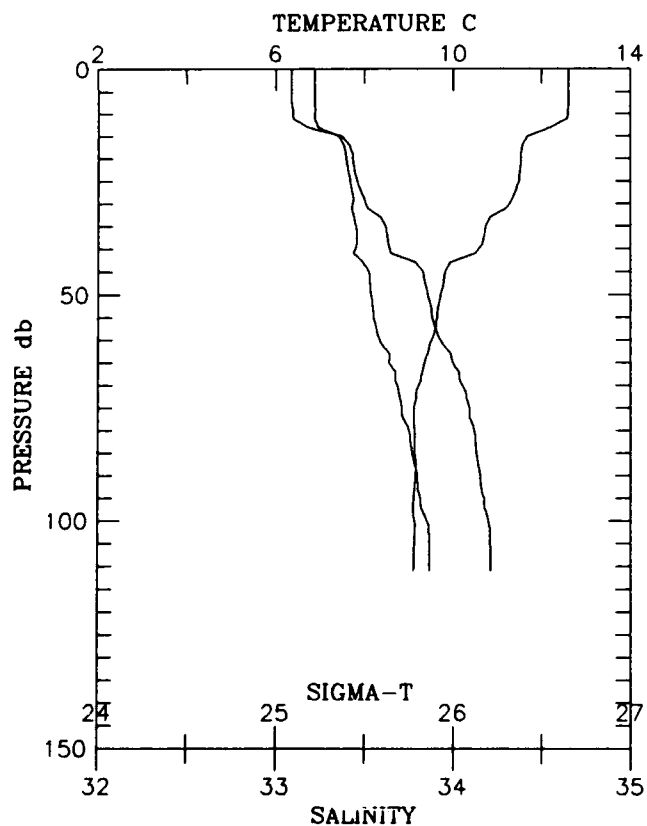
Cruise W8811 Station # 18 Depth m: 137 Time: 15 NOV 1988,1624  
 Position: 38 35.40'N 123 34.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.544	33.237	25.117	0.0000	89.8
10.0	12.550	33.237	25.116	0.0258	89.9
20.0	12.403	33.256	25.159	0.0544	91.1
30.0	11.356	33.342	25.421	0.0817	93.7
40.0	11.012	33.363	25.499	0.1070	94.6
50.0	10.355	33.472	25.699	0.1312	95.4
60.0	9.917	33.575	25.853	0.1536	95.7
70.0	9.716	33.650	25.945	0.1749	95.7
80.0	9.476	33.736	26.052	0.1951	95.8
90.0	9.389	33.788	26.107	0.2148	95.5
100.0	9.273	33.837	26.164	0.2339	95.3
110.0	9.208	33.885	26.212	0.2525	95.0
120.0	9.062	33.892	26.241	0.2709	92.4
129.0	8.964	33.903	26.265	0.2871	83.8



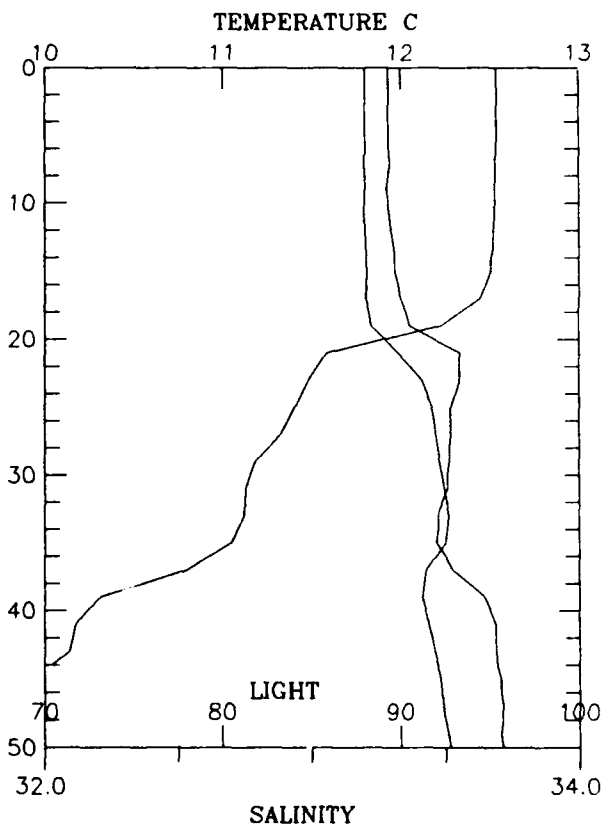
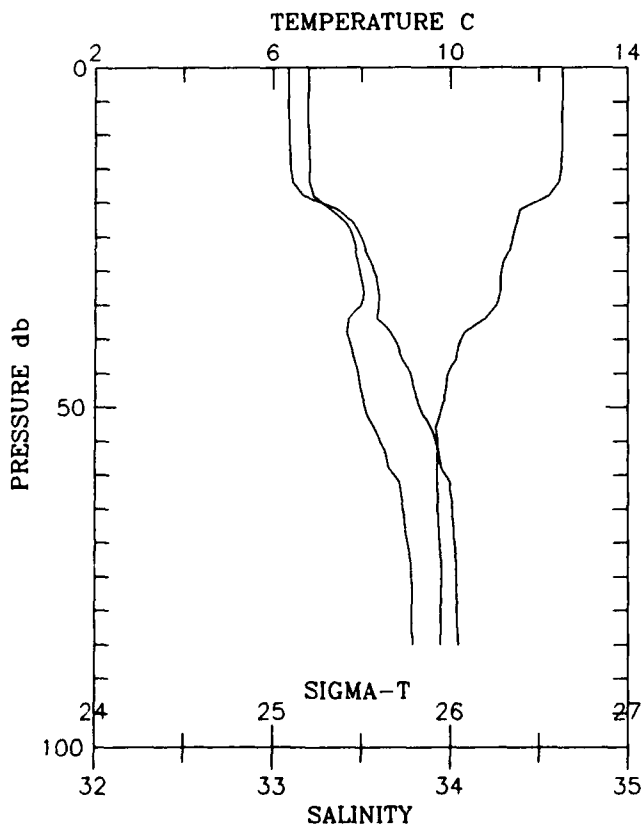
Cruise W8811 Station # 19 Depth m: 119 Time: 15 NOV 1988,1658  
 Position: 38 36.70'N 123 32.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.613	33.219	25.090	0.0000	89.5
10.0	12.589	33.221	25.096	0.0202	89.6
20.0	11.524	33.398	25.434	0.0472	93.1
30.0	11.264	33.432	25.508	0.0725	93.2
40.0	10.578	33.447	25.641	0.0967	94.4
50.0	9.717	33.537	25.857	0.1190	95.5
60.0	9.514	33.587	25.929	0.1404	96.1
70.0	9.217	33.684	26.053	0.1608	96.1
80.0	9.130	33.750	26.119	0.1803	95.5
90.0	9.151	33.797	26.153	0.1994	93.4
100.0	9.127	33.852	26.199	0.2182	84.3
110.0	9.112	33.866	26.213	0.2366	74.2
111.0	9.110	33.866	26.213	0.2385	74.2



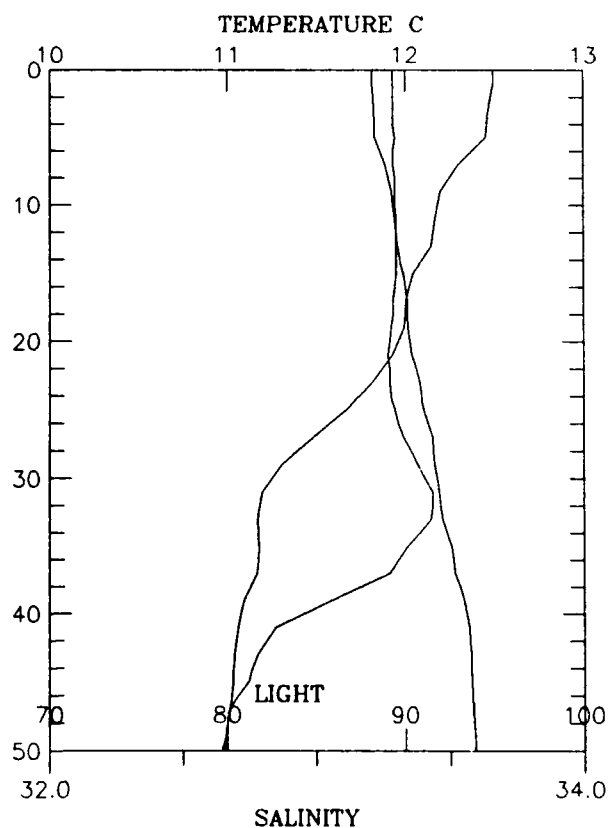
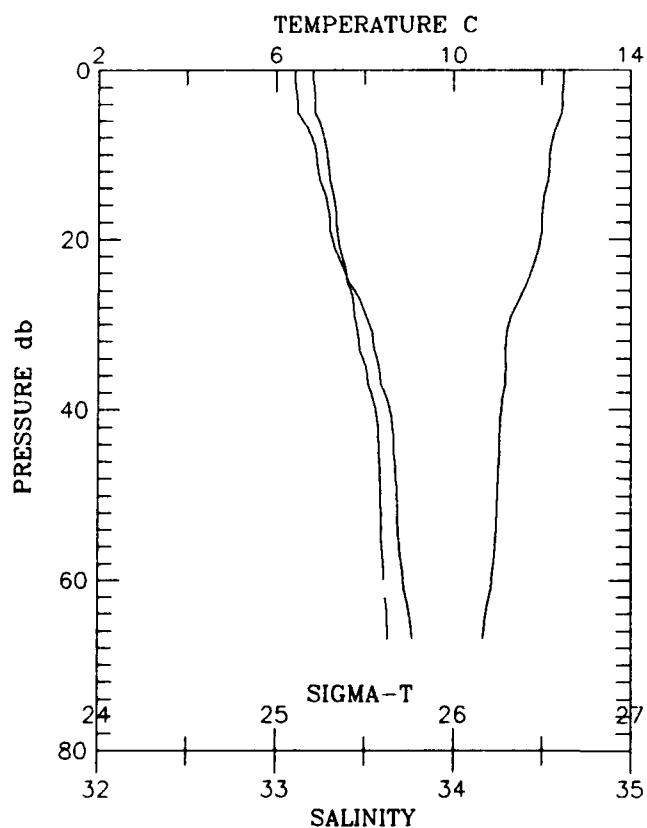
Cruise W8811 Station # 20 Depth m: 94 Time: 15 NOV 1988,1745  
 Position: 38 38.70'N 123 29.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.538	33.200	25.090	0.0000	89.3
5.0	12.537	33.199	25.089	0.0116	89.3
10.0	12.527	33.200	25.092	0.0260	89.3
15.0	12.509	33.208	25.101	0.0404	89.7
20.0	11.905	33.274	25.267	0.0546	91.9
25.0	11.407	33.450	25.496	0.0676	92.8
30.0	11.156	33.488	25.570	0.0799	92.6
35.0	11.049	33.500	25.599	0.0920	92.0
40.0	10.241	33.425	25.682	0.1040	95.0
45.0	9.941	33.481	25.777	0.1155	95.6
50.0	9.818	33.518	25.826	0.1266	95.7
55.0	9.693	33.603	25.912	0.1374	95.9
60.0	9.705	33.682	25.973	0.1478	95.1
65.0	9.717	33.734	26.011	0.1580	93.3
70.0	9.752	33.757	26.023	0.1681	85.6
75.0	9.801	33.780	26.033	0.1782	75.4
80.0	9.785	33.783	26.038	0.1882	64.1
85.0	9.775	33.788	26.044	0.1982	61.0



Cruise W8811 Station # 21 Depth m: 76 Time: 15 NOV 1988, 1818  
 Position: 38 40.00'N 123 27.60'W Depth Deck Offset: 0.00

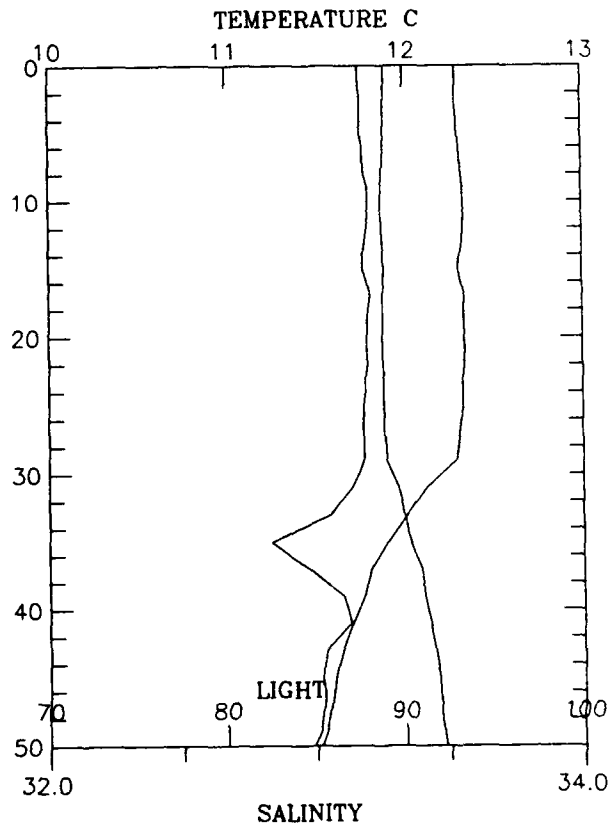
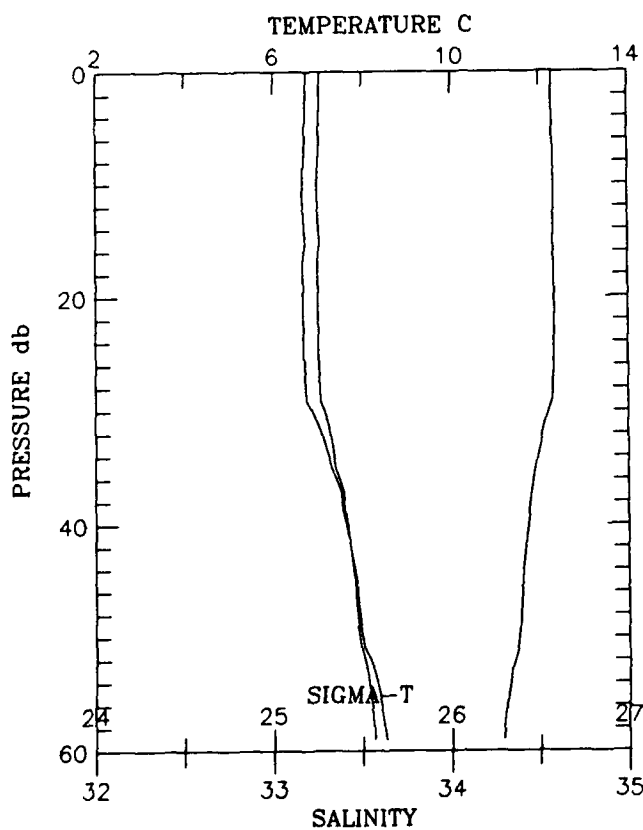
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.494	33.210	25.105	0.0000	89.3
5.0	12.450	33.220	25.122	0.0115	89.4
10.0	12.182	33.287	25.225	0.0255	89.4
15.0	12.043	33.326	25.282	0.0392	89.5
20.0	11.959	33.350	25.316	0.0526	89.1
25.0	11.667	33.401	25.410	0.0658	89.4
30.0	11.248	33.451	25.525	0.0785	91.1
35.0	11.178	33.505	25.580	0.0907	90.1
40.0	11.076	33.561	25.642	0.1028	84.3
45.0	11.032	33.580	25.665	0.1146	81.2
50.0	10.988	33.591	25.681	0.1263	79.7
55.0	10.950	33.595	25.691	0.1379	79.5
60.0	10.863	33.610	25.718	0.1495	76.2
65.0	10.707	33.628	25.759	0.1610	78.9
67.0	10.662	33.631	25.770	0.1655	76.5



Cruise W8811 Station # 22 Depth m: 67 Time: 15 NOV 1988,1846  
 Position: 38 40.60'N 123 27.10'W Depth Deck Offset: 0.00

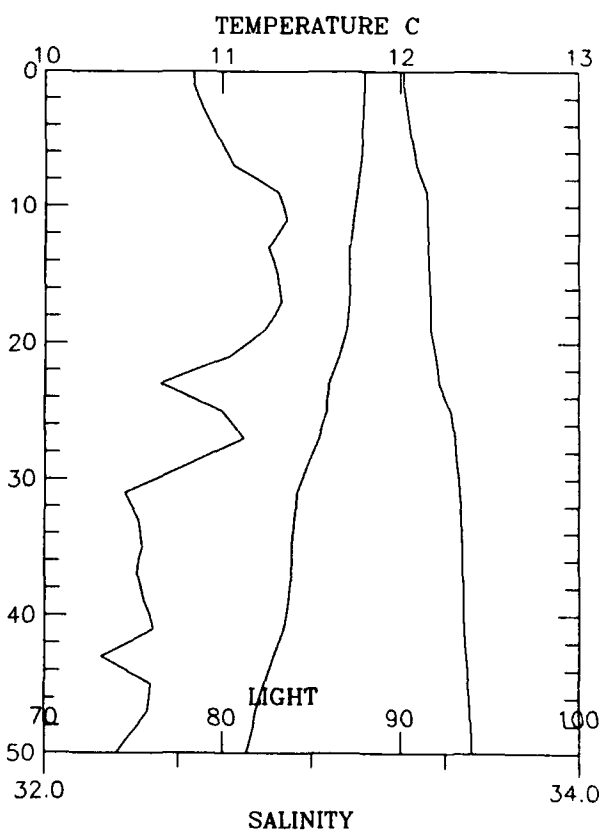
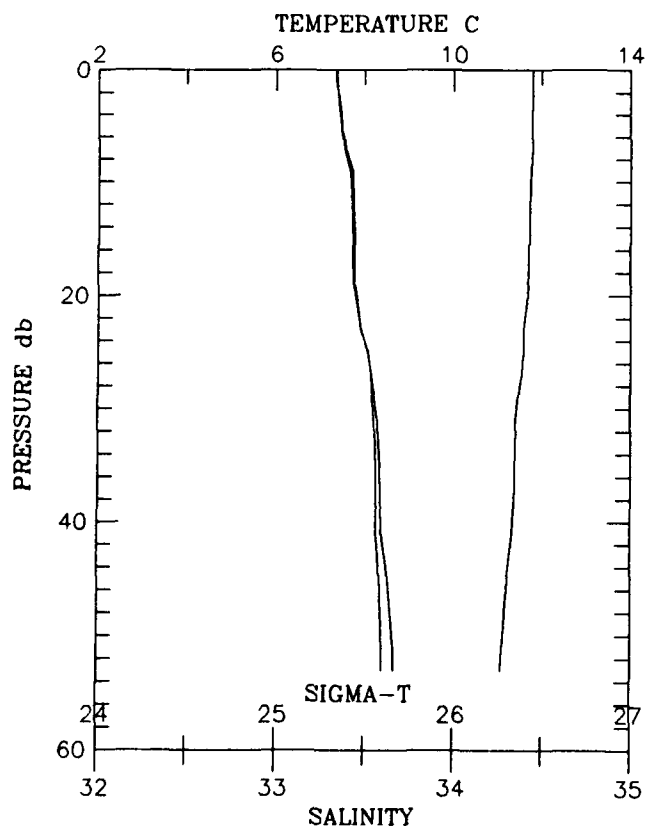
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
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0.0	12.292	33.263	25.185	0.0000	87.5
5.0	12.306	33.259	25.180	0.0112	87.6
10.0	12.335	33.249	25.167	0.0253	88.0
15.0	12.303	33.259	25.180	0.0393	87.7
20.0	12.337	33.252	25.169	0.0534	87.9
25.0	12.327	33.256	25.173	0.0675	87.7
30.0	12.202	33.287	25.221	0.0815	87.4
35.0	11.899	33.351	25.328	0.0951	82.5
40.0	11.734	33.414	25.407	0.1082	86.7
45.0	11.601	33.457	25.466	0.1210	85.3
50.0	11.523	33.481	25.499	0.1337	84.8
55.0	11.279	33.545	25.593	0.1460	81.3
59.0	11.164	33.567	25.631	0.1556	79.4



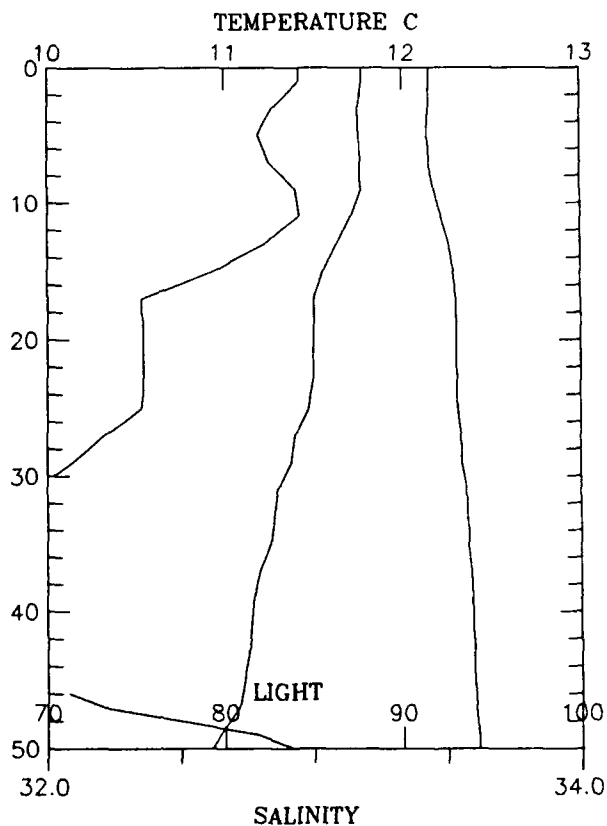
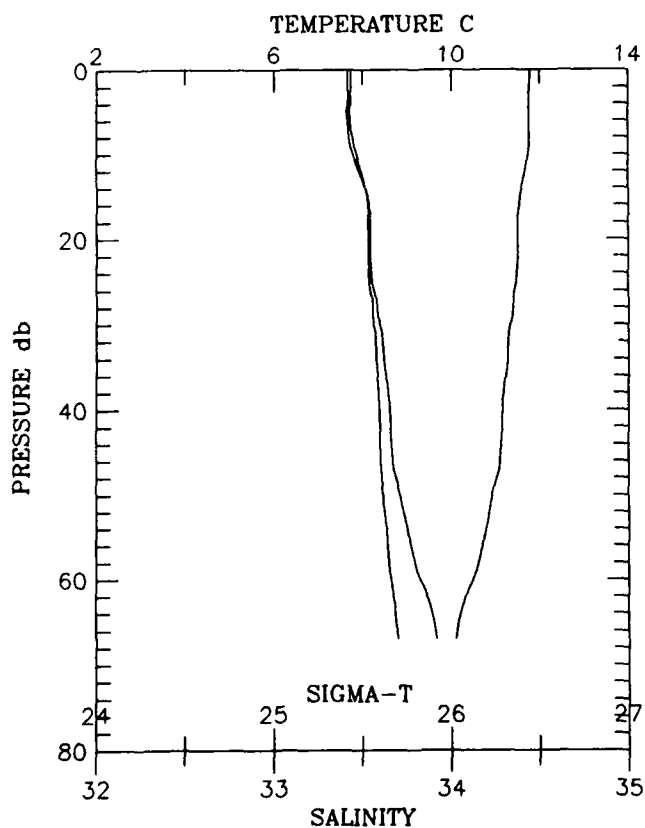
Cruise W8811 Station # 23 Depth m: 63 Time: 15 NOV 1988,2042  
 Position: 38 34.70'N 123 21.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.798	33.344	25.341	0.0000	78.4
5.0	11.786	33.374	25.367	0.0106	79.8
10.0	11.745	33.431	25.419	0.0236	83.4
15.0	11.716	33.443	25.433	0.0364	83.1
20.0	11.675	33.454	25.450	0.0492	81.4
25.0	11.587	33.521	25.518	0.0618	80.0
30.0	11.445	33.550	25.566	0.0742	76.2
35.0	11.392	33.565	25.587	0.0863	75.5
40.0	11.357	33.569	25.597	0.0984	75.9
45.0	11.234	33.586	25.633	0.1104	76.0
50.0	11.134	33.598	25.660	0.1223	74.0
53.0	11.085	33.600	25.671	0.1293	73.0



Cruise W8811 Station # 24 Depth m: 72 Time: 15 NOV 1988,2112  
 Position: 38 33.70'N 123 21.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.773	33.435	25.416	0.0000	84.2
5.0	11.760	33.427	25.413	0.0103	81.9
10.0	11.741	33.465	25.446	0.0232	84.1
15.0	11.554	33.525	25.527	0.0357	79.4
20.0	11.500	33.533	25.543	0.0481	75.4
25.0	11.472	33.539	25.553	0.0604	75.3
30.0	11.335	33.562	25.596	0.0725	70.3
35.0	11.258	33.579	25.623	0.0845	65.9
40.0	11.154	33.594	25.653	0.0964	66.8
45.0	11.109	33.600	25.666	0.1082	69.2
50.0	10.927	33.615	25.710	0.1198	83.8
55.0	10.732	33.638	25.763	0.1313	85.6
60.0	10.477	33.659	25.824	0.1424	72.7
65.0	10.167	33.690	25.901	0.1533	57.3
67.0	10.112	33.701	25.919	0.1575	51.5

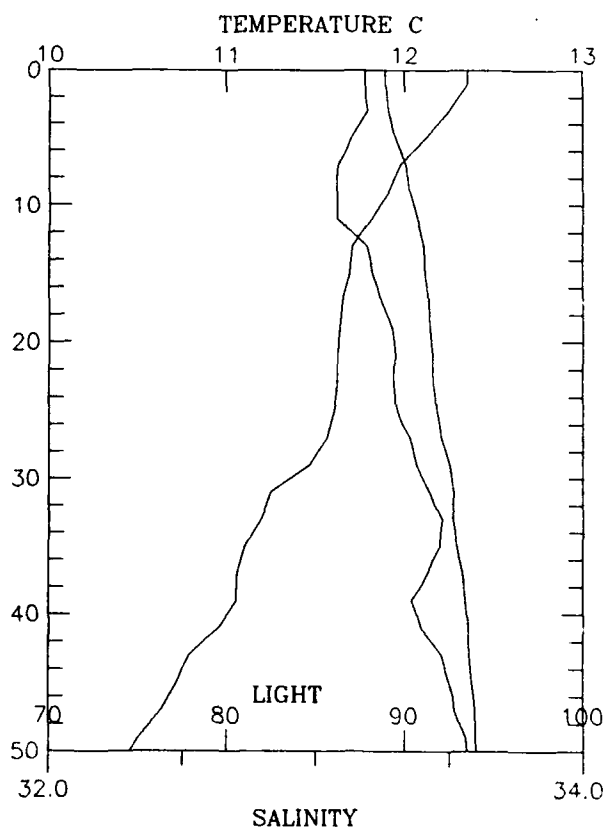
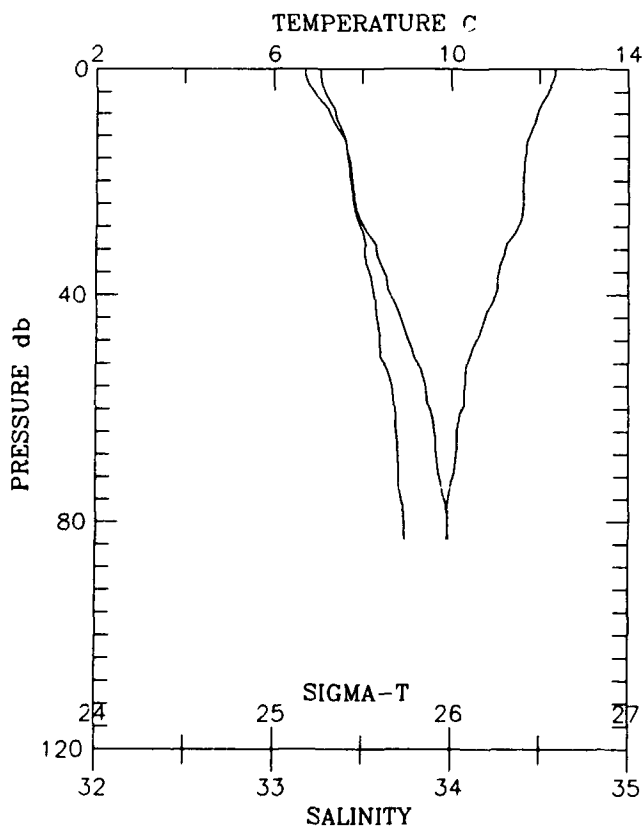




Cruise W8811 Station # 25 Depth m: 93 Time: 15 NOV 1988,2140  
 Position: 38 32.50'N 123 23.00'W Depth Deck Offset: 0.00

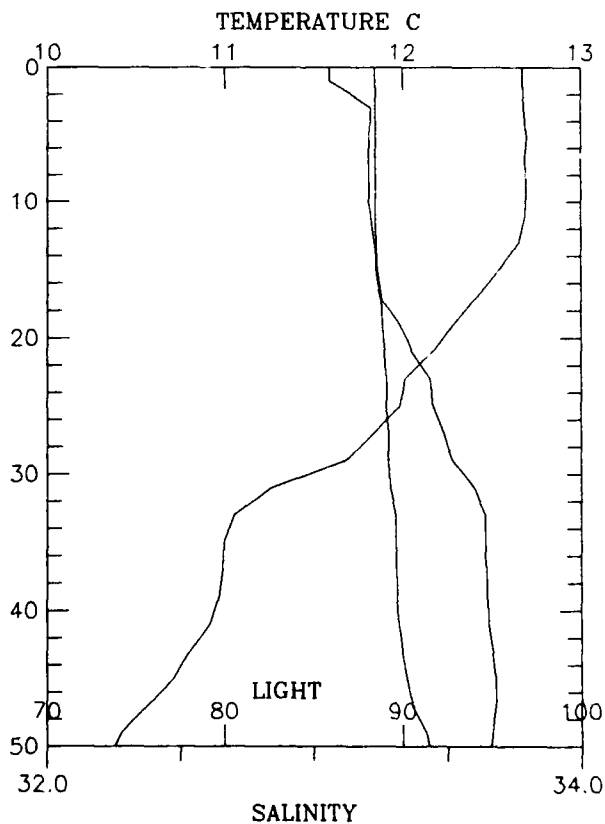
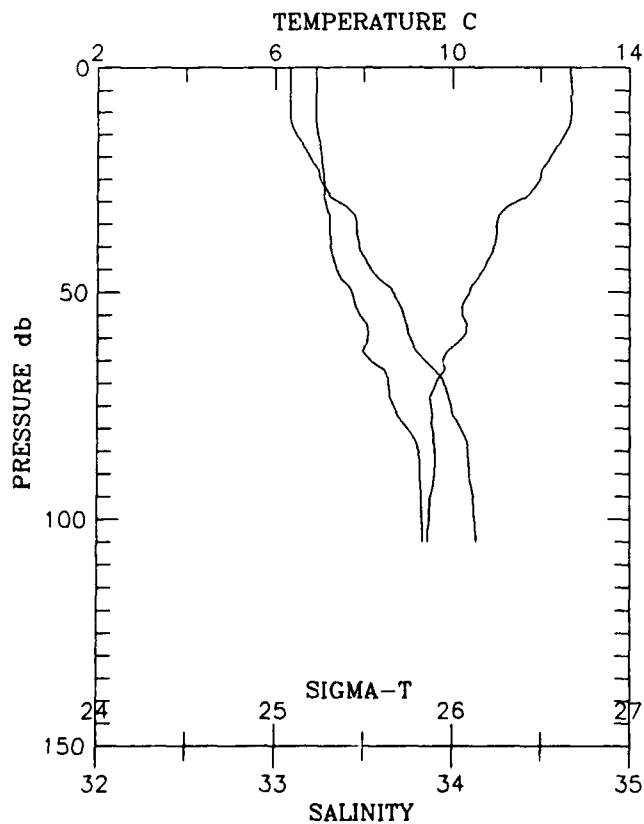
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
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0.0	12.354	33.263	25.174	0.0000	87.8
5.0	12.122	33.298	25.245	0.0111	87.0
10.0	11.861	33.367	25.347	0.0245	86.2
15.0	11.694	33.411	25.413	0.0376	88.2
20.0	11.630	33.433	25.442	0.0504	89.4
25.0	11.607	33.453	25.461	0.0632	89.6
30.0	11.358	33.510	25.551	0.0757	91.0
35.0	11.103	33.530	25.613	0.0879	92.0
40.0	11.006	33.566	25.658	0.0997	90.7
45.0	10.722	33.586	25.724	0.1114	92.5
50.0	10.457	33.600	25.781	0.1227	93.5
55.0	10.342	33.664	25.851	0.1337	92.0
60.0	10.252	33.684	25.882	0.1445	91.0
65.0	10.132	33.698	25.913	0.1552	80.2
70.0	10.094	33.705	25.925	0.1658	64.3
75.0	9.965	33.716	25.955	0.1763	76.1
80.0	9.915	33.735	25.979	0.1866	68.5
83.0	9.907	33.738	25.982	0.1927	66.8



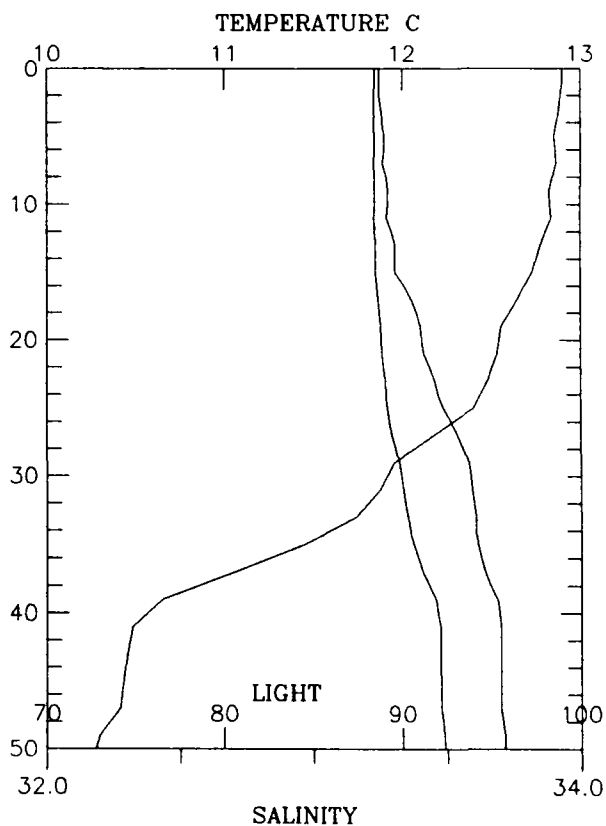
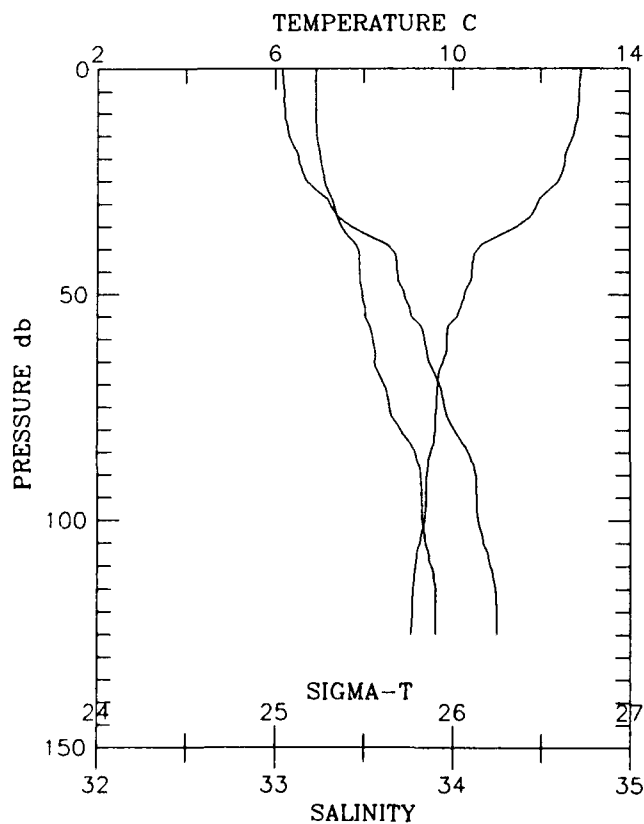
Cruise W8811 Station # 26 Depth m: 113 Time: 15 NOV 1988,2216  
 Position: 38 31.10'N 123 24.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.674	33.229	25.085	0.0000	85.9
10.0	12.689	33.231	25.084	0.0261	88.1
20.0	12.224	33.261	25.197	0.0546	90.2
30.0	11.471	33.283	25.354	0.0819	93.4
40.0	10.940	33.314	25.474	0.1075	94.8
50.0	10.380	33.430	25.662	0.1321	94.9
60.0	10.215	33.521	25.761	0.1551	95.1
70.0	9.630	33.639	25.951	0.1769	95.9
80.0	9.550	33.745	26.047	0.1973	92.3
90.0	9.592	33.817	26.097	0.2169	82.4
100.0	9.474	33.828	26.125	0.2363	80.7
105.0	9.439	33.831	26.132	0.2459	77.8



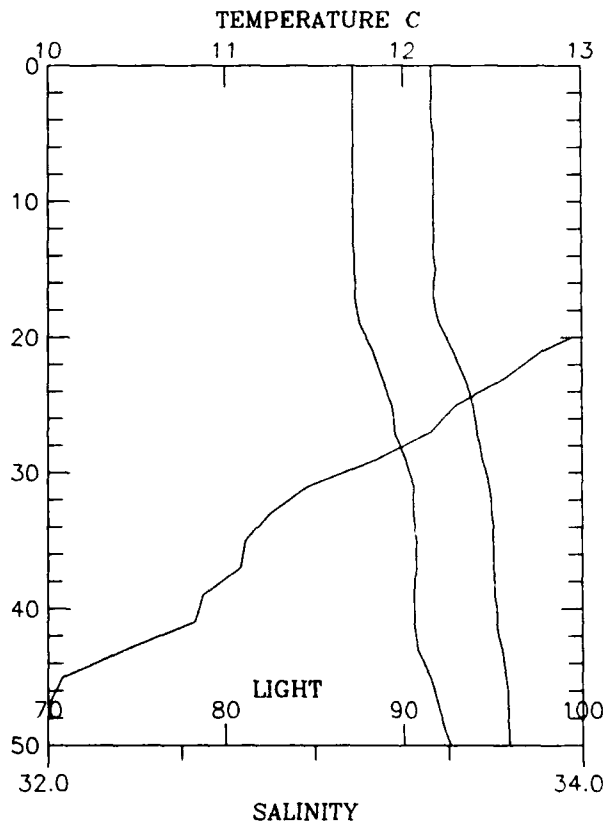
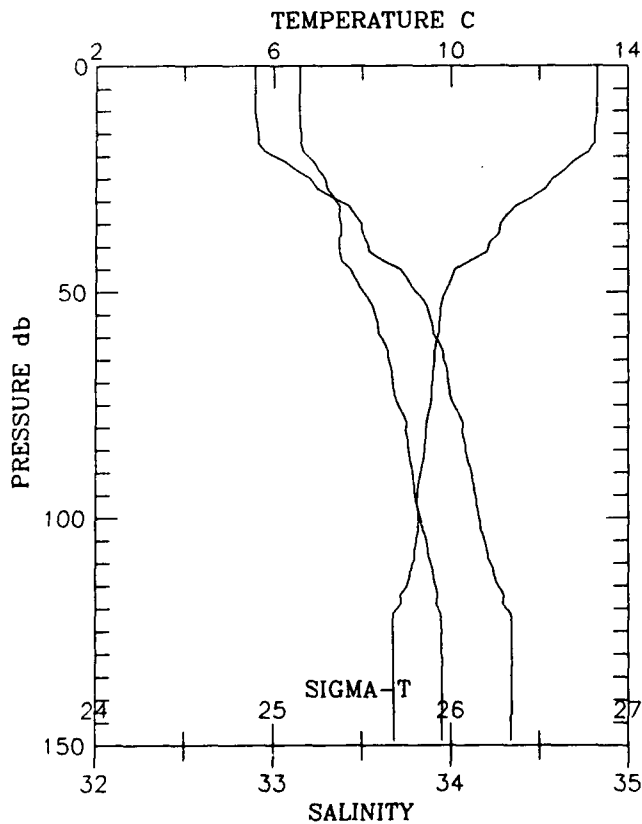
Cruise W88i1 Station # 27 Depth m: 135 Time: 15 NOV 1988,2253  
 Position: 38 29.20'N 123 27.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.898	33.228	25.041	0.0000	88.7
10.0	12.830	33.230	25.056	0.0264	89.2
20.0	12.542	33.256	25.132	0.0553	91.1
30.0	11.911	33.328	25.308	0.0832	93.8
40.0	10.566	33.465	25.657	0.1087	95.4
50.0	10.275	33.490	25.727	0.1320	95.7
60.0	9.877	33.551	25.842	0.1544	95.9
70.0	9.665	33.614	25.926	0.1759	96.1
80.0	9.604	33.707	26.009	0.1967	95.8
90.0	9.413	33.818	26.127	0.2163	95.0
100.0	9.366	33.828	26.142	0.2355	95.0
110.0	9.161	33.877	26.214	0.2542	93.7
120.0	9.085	33.905	26.247	0.2724	89.6
125.0	9.061	33.903	26.250	0.2815	85.5



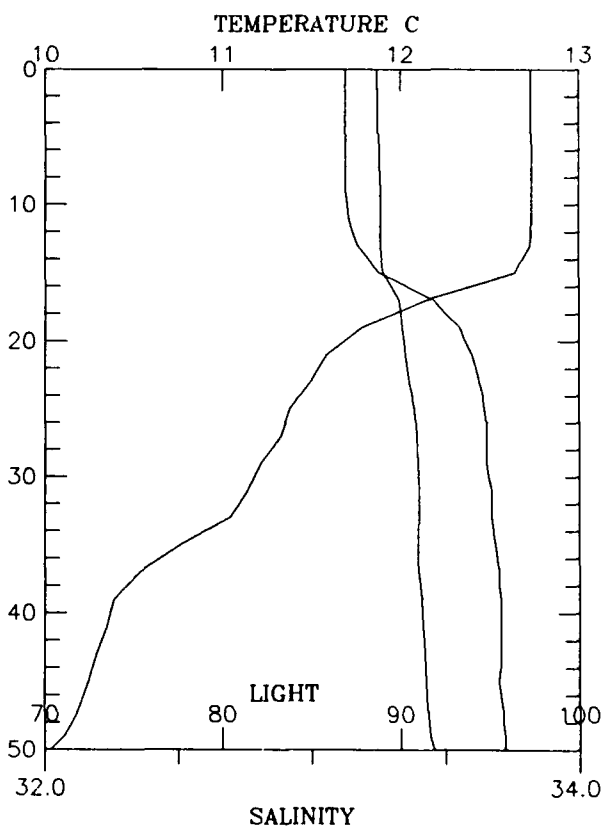
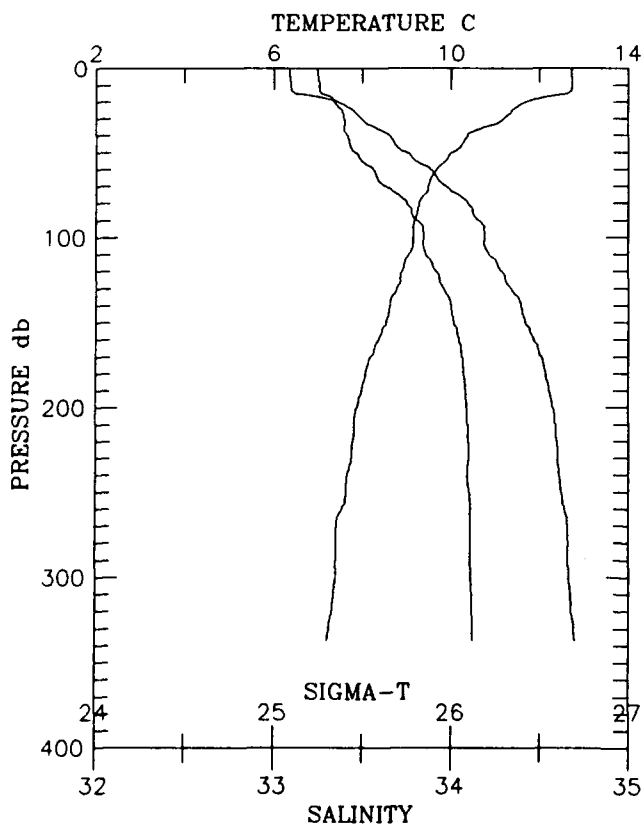
Cruise W8811 Station # 28 Depth m: 157 Time: 15 NOV 1988,2329  
 Position: 38 27.10'N 123 30.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	13.315	33.146	24.895	0.0000	91.6
10.0	13.304	33.146	24.897	0.0277	91.7
20.0	12.946	33.194	25.005	0.0582	92.4
30.0	11.660	33.355	25.376	0.0862	94.6
40.0	10.849	33.371	25.535	0.1115	95.2
50.0	9.880	33.507	25.807	0.1348	95.9
60.0	9.698	33.607	25.915	0.1564	96.0
70.0	9.580	33.672	25.985	0.1771	96.0
80.0	9.444	33.748	26.067	0.1973	96.1
90.0	9.314	33.782	26.114	0.2169	96.1
100.0	9.257	33.826	26.158	0.2360	95.5
110.0	9.141	33.885	26.223	0.2546	92.4
120.0	8.780	33.928	26.314	0.2725	94.6
130.0	8.693	33.948	26.343	0.2897	92.4
140.0	8.712	33.951	26.342	0.3069	91.9
149.0	8.720	33.951	26.341	0.3225	91.8



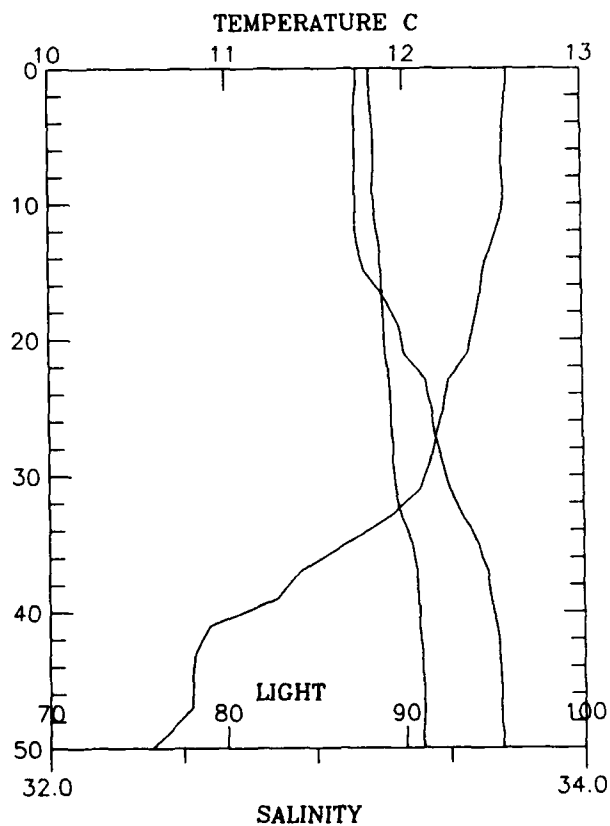
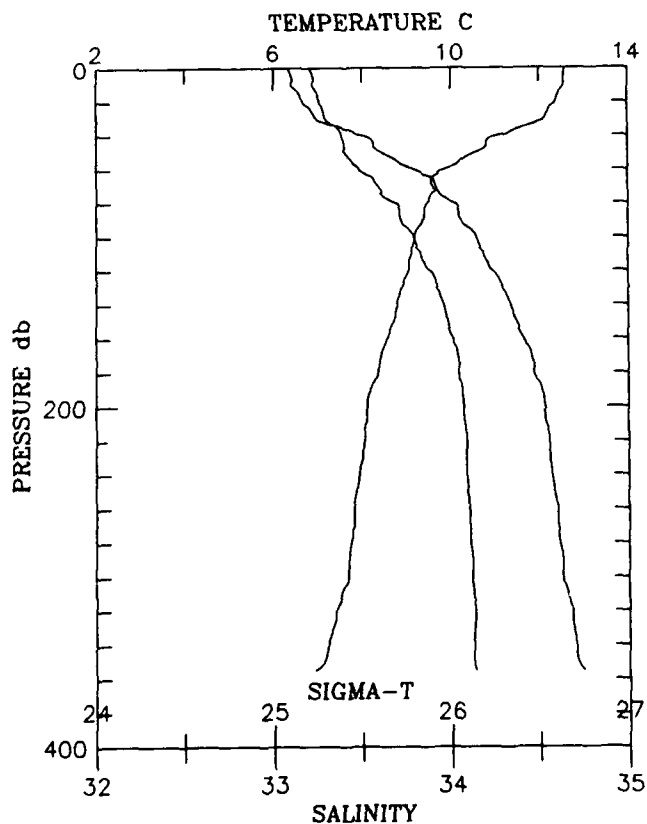
Cruise W8811 Station # 29 Depth m: 345 Time: 16 NOV 1988,0019  
 Position: 38 23.80'N 123 34.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.731	33.245	25.087	0.0000	86.9
10.0	12.734	33.257	25.096	0.0260	87.0
20.0	11.681	33.344	25.363	0.0540	93.6
30.0	11.177	33.398	25.497	0.0796	94.9
40.0	10.366	33.414	25.651	0.1040	95.6
50.0	10.031	33.456	25.742	0.1273	95.8
60.0	9.665	33.561	25.884	0.1495	96.0
80.0	9.280	33.752	26.097	0.1906	96.0
100.0	9.153	33.844	26.189	0.2285	96.0
150.0	8.538	34.016	26.421	0.3161	96.2
200.0	7.876	34.090	26.578	0.3943	96.2
250.0	7.631	34.104	26.624	0.4688	96.0
300.0	7.399	34.112	26.664	0.5411	95.8
337.0	7.213	34.124	26.699	0.5939	95.1



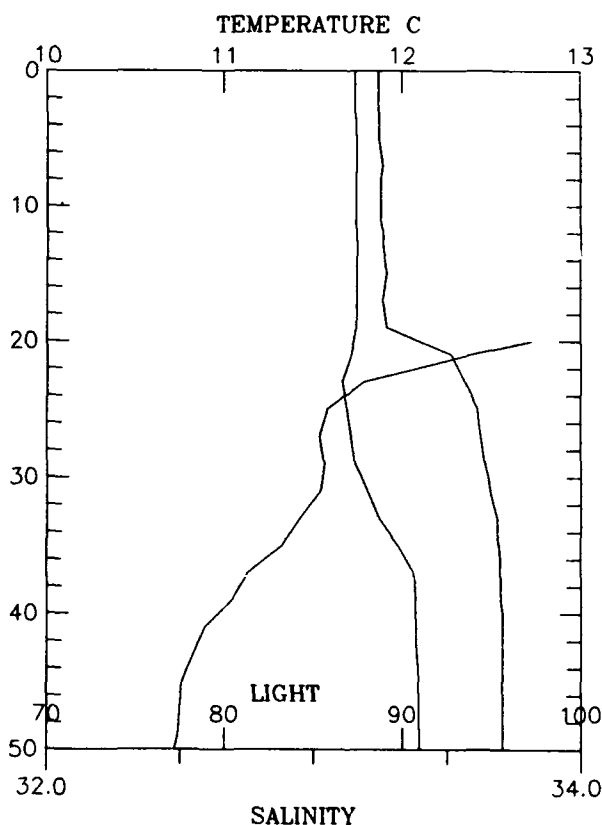
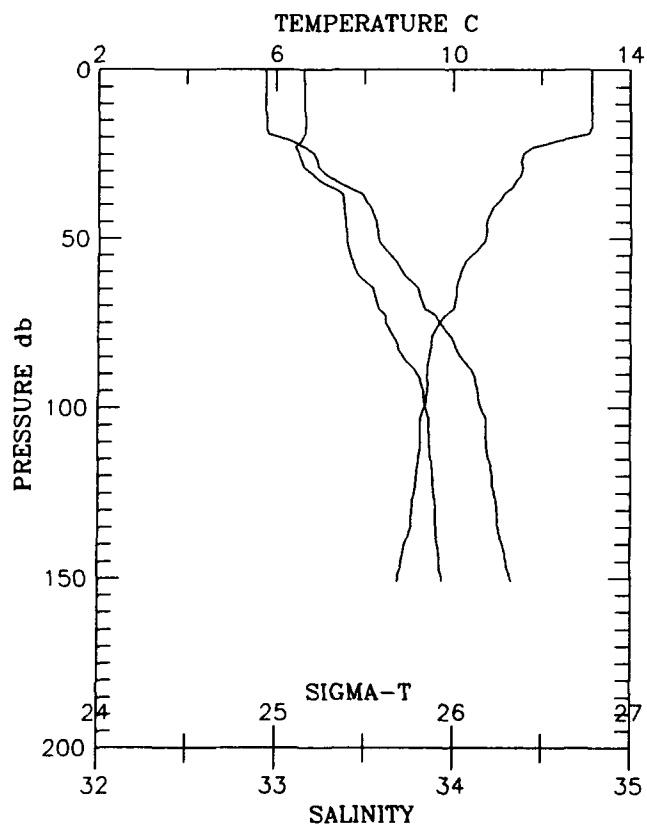
Cruise W8811 Station # 30 Depth m: 365 Time: 16 NOV 1988,0154  
 Position: 38 15.70'N 123 30.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.583	33.210	25.089	0.0000	87.4
10.0	12.557	33.223	25.104	0.0202	87.3
20.0	12.373	33.260	25.168	0.0486	89.9
30.0	12.111	33.294	25.244	0.0764	92.3
40.0	11.092	33.383	25.500	0.1027	94.9
50.0	10.573	33.401	25.606	0.1272	95.4
60.0	9.861	33.485	25.792	0.1504	95.9
80.0	9.459	33.683	26.013	0.1928	95.9
100.0	9.172	33.791	26.144	0.2323	95.9
150.0	8.693	33.983	26.370	0.3222	96.2
200.0	8.093	34.070	26.530	0.4031	96.4
250.0	7.856	34.093	26.583	0.4798	96.2
300.0	7.678	34.118	26.629	0.5543	96.3
355.0	6.927	34.136	26.748	0.6327	95.1



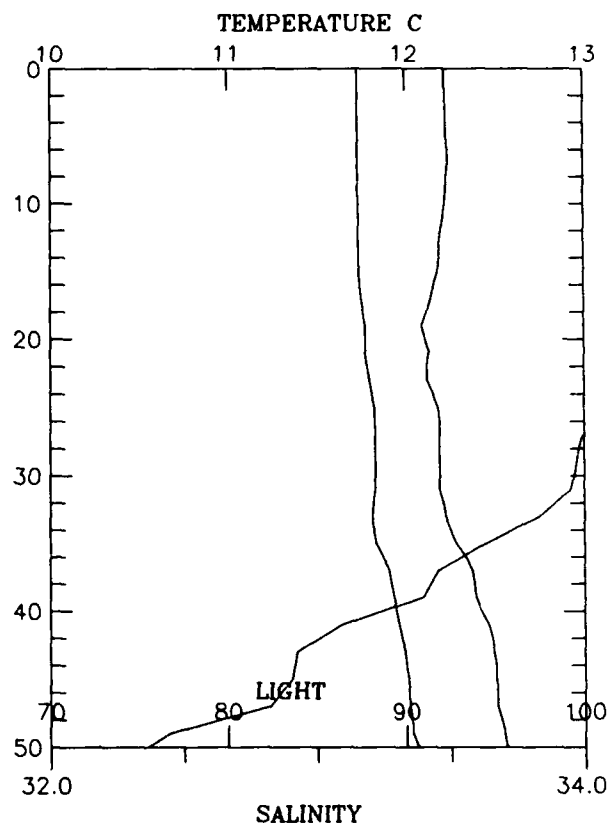
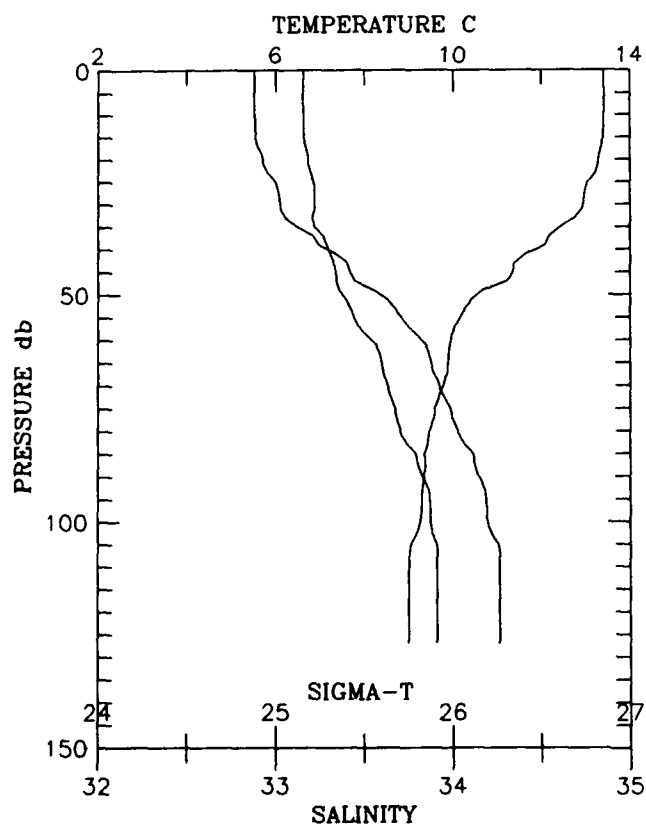
Cruise W8811 Station # 31 Depth m: 161 Time: 16 NOV 1988, 0257  
 Position: 38 20.00'N 123 25.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	13.128	33.158	24.942	0.0000	88.7
10.0	13.139	33.160	24.941	0.0273	88.8
20.0	12.724	33.151	25.015	0.0575	90.9
30.0	11.552	33.179	25.259	0.0856	94.8
40.0	10.965	33.381	25.522	0.1116	95.6
50.0	10.719	33.396	25.576	0.1361	95.6
60.0	10.185	33.454	25.714	0.1598	95.9
70.0	10.031	33.575	25.835	0.1822	96.1
80.0	9.521	33.675	25.997	0.2033	96.0
90.0	9.403	33.796	26.111	0.2233	95.7
100.0	9.349	33.846	26.159	0.2424	95.0
110.0	9.264	33.867	26.189	0.2611	95.1
120.0	9.163	33.883	26.218	0.2796	94.9
130.0	9.062	33.899	26.246	0.2979	93.8
140.0	8.922	33.914	26.280	0.3160	92.0
150.0	8.753	33.935	26.323	0.3336	91.2
151.0	8.740	33.937	26.327	0.3353	91.2



Cruise W8811 Station # 32 Depth m: 136 Time: 16 NOV 1988,0333  
 Position: 38 21.20'N 123 23.60'W Depth Deck Offset: 0.00

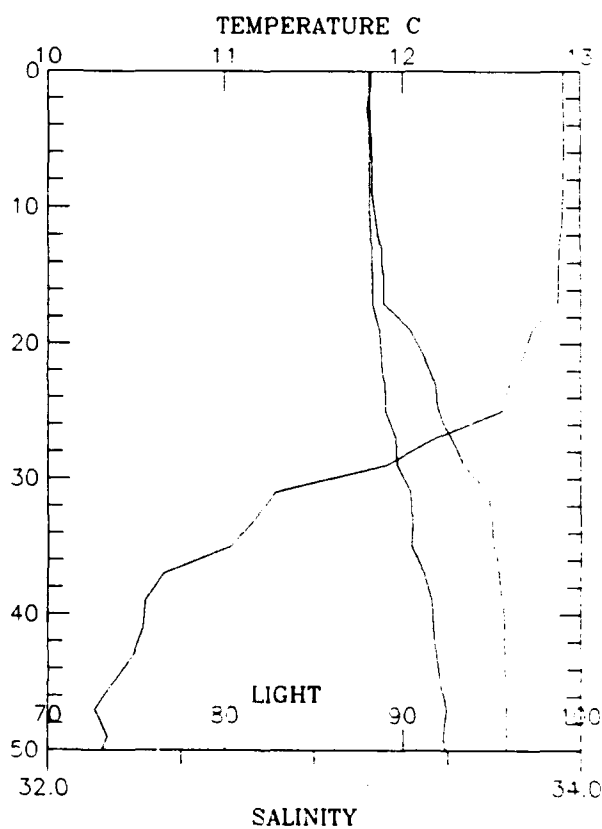
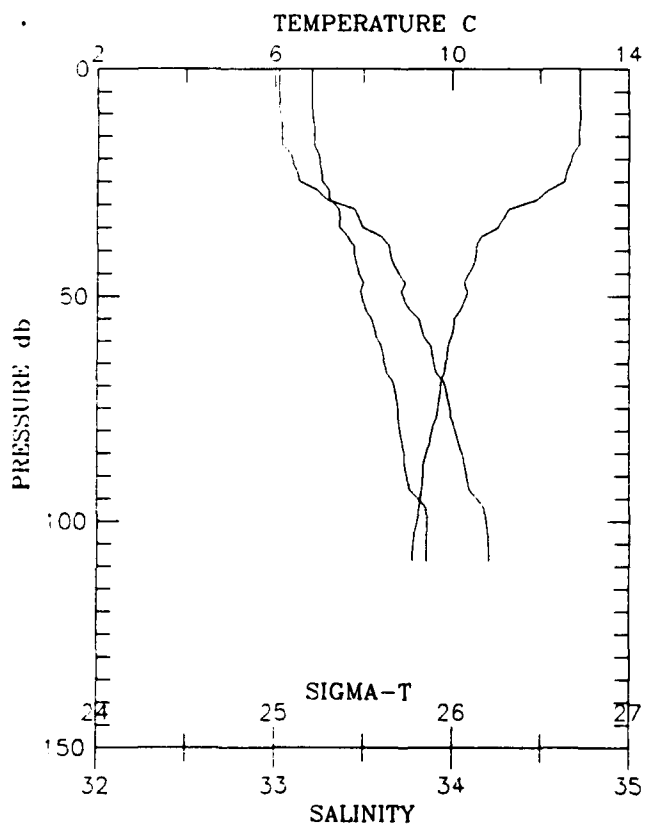
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	13.414	33.156	24.882	0.0000	92.2
10.0	13.415	33.157	24.883	0.0216	92.2
20.0	13.293	33.182	24.927	0.0524	91.1
30.0	12.939	33.219	25.026	0.0823	91.9
40.0	11.865	33.296	25.292	0.1109	94.2
50.0	10.543	33.375	25.591	0.1366	95.6
60.0	9.941	33.539	25.821	0.1597	96.0
70.0	9.772	33.630	25.921	0.1812	96.1
80.0	9.471	33.703	26.027	0.2018	96.1
90.0	9.344	33.829	26.146	0.2213	95.6
100.0	9.259	33.875	26.197	0.2400	94.9
110.0	9.012	33.911	26.264	0.2582	91.7
120.0	9.009	33.910	26.263	0.2761	90.7
127.0	9.003	33.910	26.265	0.2887	90.1





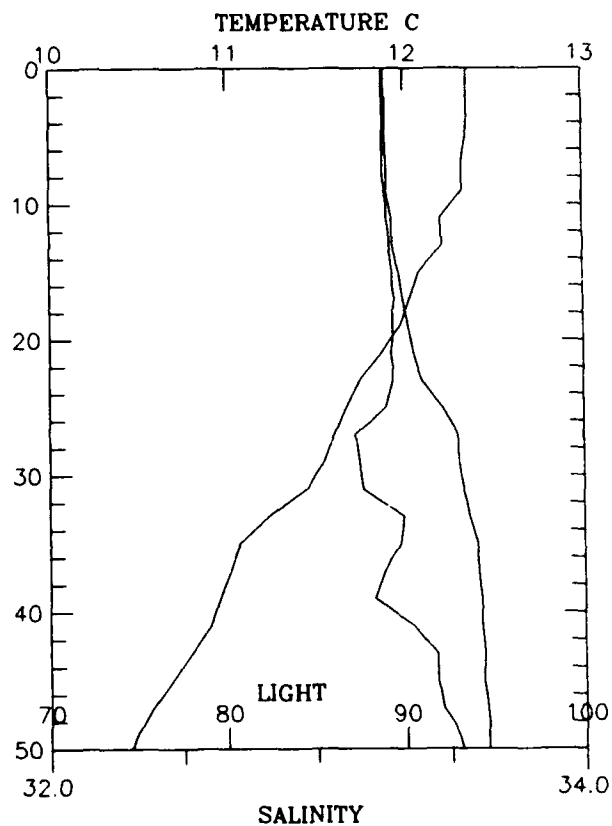
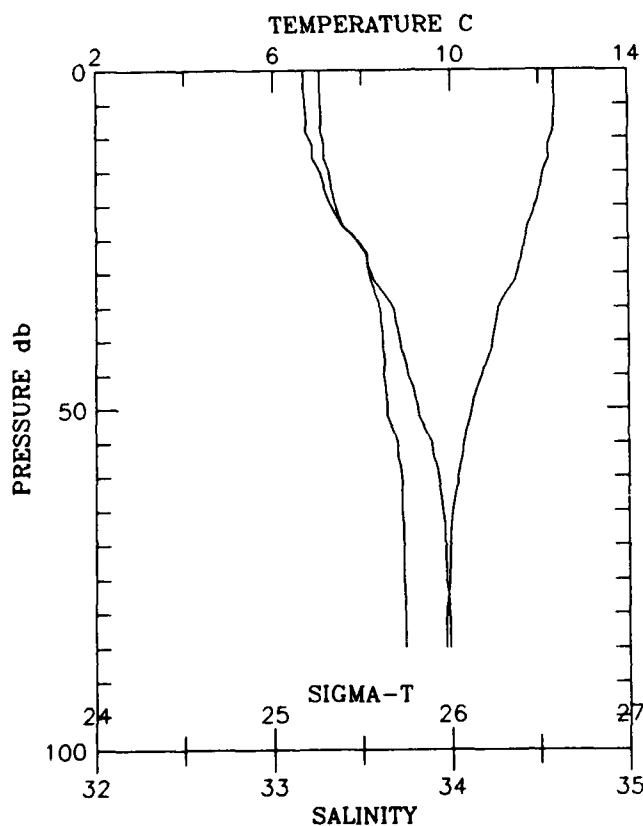
Cruise W8811 Station # 33 Depth m: 117 Time: 16 NOV 1988,0412  
 Position: 38 23.50'N 123 20.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.906	33.208	25.024	0.0000	88.2
10.0	12.903	33.210	25.026	0.0266	88.4
20.0	12.701	33.249	25.096	0.0559	90.8
30.0	11.597	33.337	25.372	0.0839	94.1
40.0	10.542	33.445	25.645	0.1087	95.7
50.0	10.304	33.488	25.720	0.1320	95.8
60.0	9.939	33.584	25.857	0.1543	95.9
70.0	9.733	33.670	25.959	0.1756	96.0
80.0	9.536	33.703	26.017	0.1961	96.1
90.0	9.329	33.742	26.080	0.2160	95.8
100.0	9.193	33.855	26.191	0.2351	88.6
109.0	9.086	33.852	26.206	0.2518	86.7



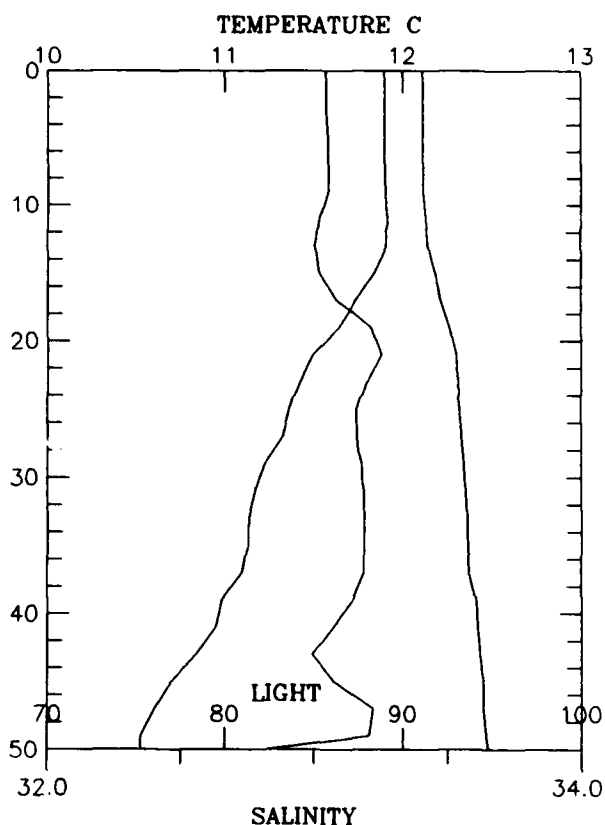
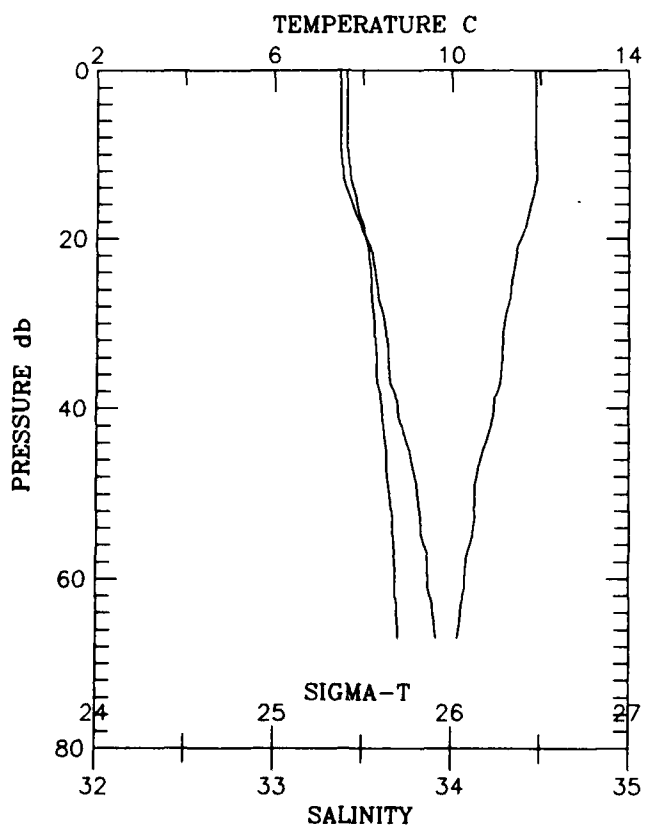
Cruise W8811 Station # 34 Depth m: 93 Time: 16 NOV 1988,0452  
 Position: 38 26.20'N 123 16.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.355	33.261	25.172	0.0000	88.8
5.0	12.348	33.263	25.174	0.0056	88.8
10.0	12.264	33.277	25.201	0.0196	89.0
15.0	12.080	33.312	25.264	0.0334	89.3
20.0	11.916	33.355	25.328	0.0469	89.3
25.0	11.669	33.470	25.463	0.0600	88.9
30.0	11.491	33.540	25.550	0.0724	87.5
35.0	11.063	33.599	25.674	0.0845	89.7
40.0	10.925	33.613	25.709	0.0961	89.3
45.0	10.682	33.620	25.758	0.1075	91.7
50.0	10.451	33.637	25.811	0.1187	93.1
55.0	10.274	33.698	25.889	0.1296	92.3
60.0	10.144	33.717	25.926	0.1402	88.7
65.0	10.016	33.723	25.952	0.1507	79.0
70.0	9.969	33.727	25.964	0.1611	58.3
75.0	9.942	33.729	25.970	0.1714	49.4
80.0	9.884	33.738	25.986	0.1817	69.2
85.0	9.867	33.740	25.991	0.1919	60.7



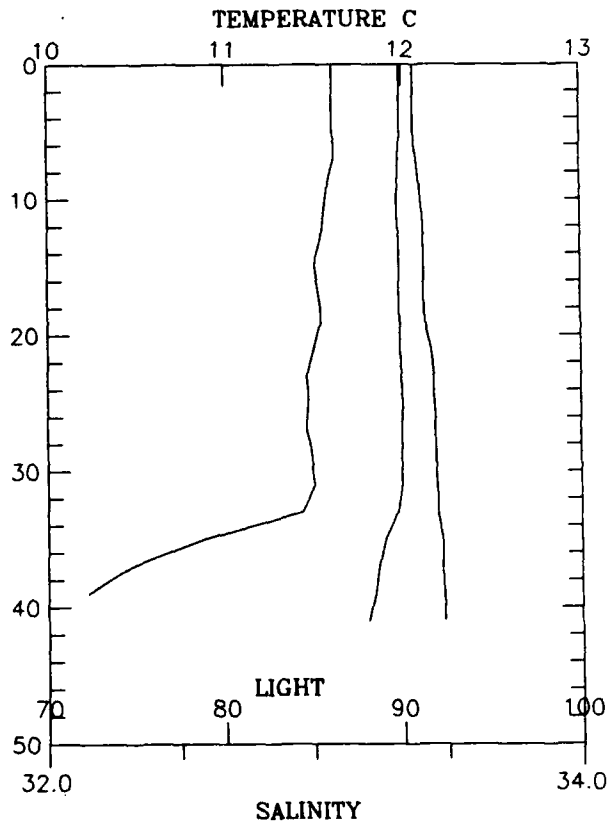
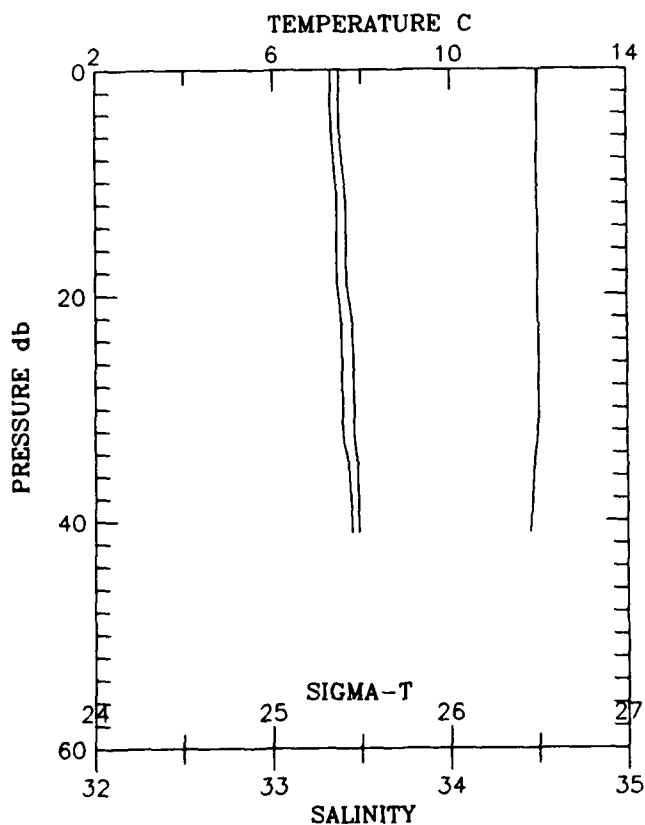
Cruise W8811 Station # 35 Depth m: 76 Time: 16 NOV 1988,0525  
 Position: 38 27.60'N 123 15.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.897	33.409	25.373	0.0000	85.7
5.0	11.896	33.409	25.373	0.0052	85.8
10.0	11.905	33.414	25.376	0.0183	85.6
15.0	11.839	33.454	25.419	0.0314	85.3
20.0	11.568	33.519	25.520	0.0440	88.5
25.0	11.362	33.546	25.578	0.0563	87.4
30.0	11.196	33.564	25.622	0.0684	87.7
35.0	11.128	33.576	25.644	0.0802	87.8
40.0	10.965	33.609	25.699	0.0920	86.6
45.0	10.701	33.633	25.765	0.1034	86.1
50.0	10.526	33.651	25.809	0.1146	82.3
55.0	10.476	33.669	25.831	0.1256	62.2
60.0	10.316	33.683	25.870	0.1365	60.2
65.0	10.191	33.695	25.901	0.1472	46.8
67.0	10.144	33.700	25.913	0.1515	47.7



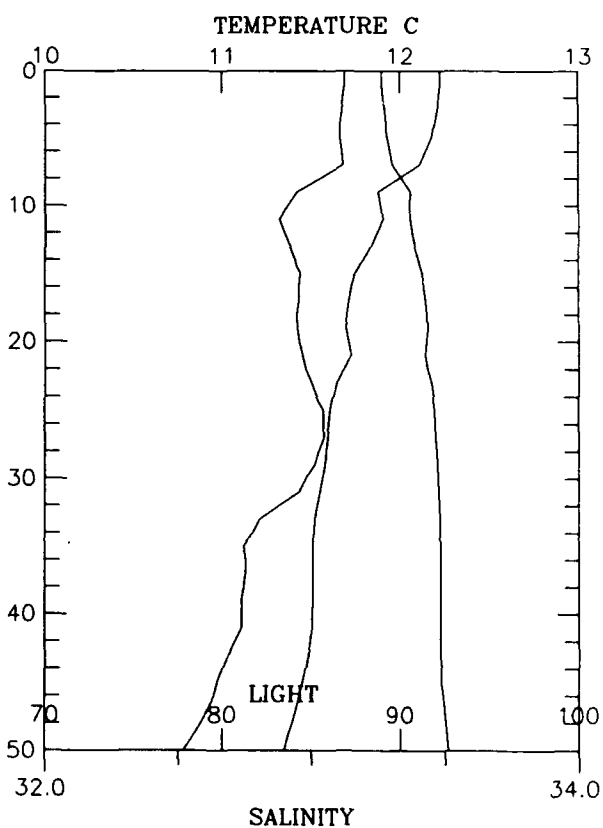
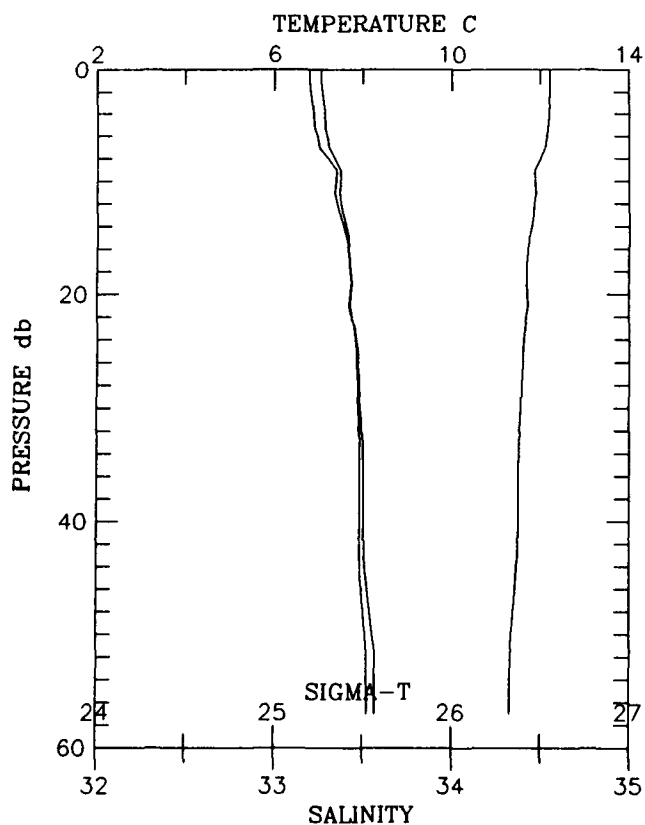
Cruise W8811 Station # 36 Depth m: 50 Time: 16 NOV 1988,0553  
 Position: 38 28.80'N 123 13.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.988	33.375	25.330	0.0000	86.1
5.0	11.988	33.376	25.331	0.0053	86.1
10.0	11.971	33.404	25.355	0.0186	85.7
15.0	11.982	33.414	25.361	0.0317	85.1
20.0	11.983	33.428	25.372	0.0449	85.2
25.0	11.997	33.452	25.388	0.0580	84.7
30.0	11.993	33.457	25.393	0.0710	84.9
35.0	11.897	33.477	25.426	0.0840	78.8
40.0	11.821	33.484	25.446	0.0969	69.5
41.0	11.803	33.485	25.450	0.0994	66.7



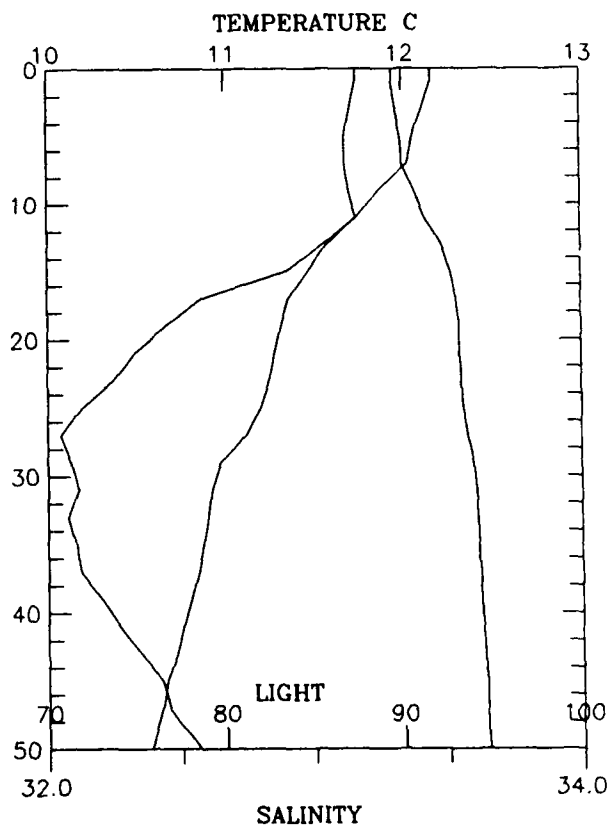
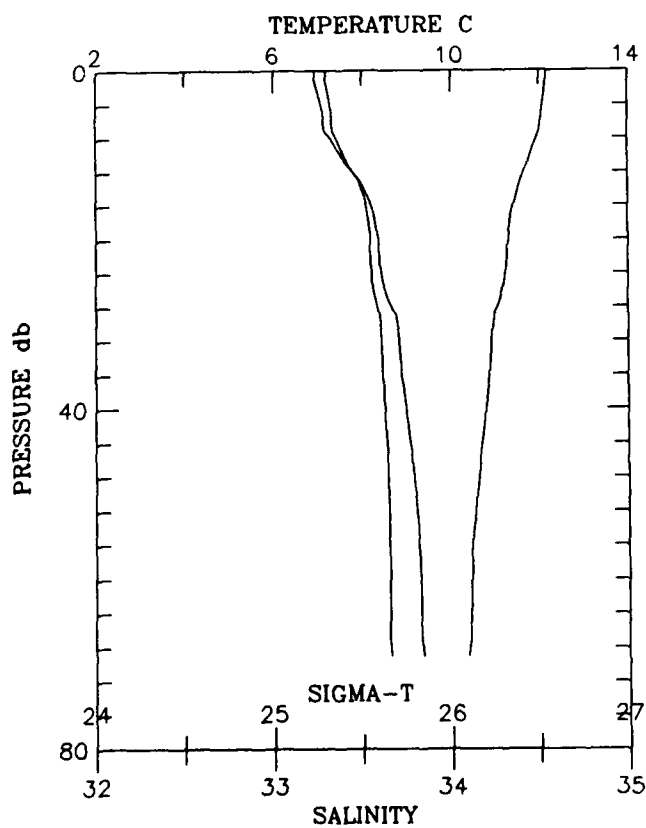
Cruise W8811 Station # 37 Depth m: 65 Time: 16 NOV 1988,0811  
 Position: 38 40.50'N 123 26.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.224	33.264	25.199	0.0000	86.9
5.0	12.173	33.284	25.224	0.0111	86.6
10.0	11.889	33.370	25.345	0.0246	83.7
15.0	11.744	33.415	25.406	0.0378	84.4
20.0	11.708	33.430	25.425	0.0507	84.3
25.0	11.606	33.462	25.468	0.0634	85.7
30.0	11.563	33.473	25.485	0.0761	84.7
35.0	11.509	33.482	25.502	0.0886	81.2
40.0	11.505	33.483	25.504	0.1012	81.1
45.0	11.451	33.486	25.516	0.1137	79.7
50.0	11.347	33.512	25.555	0.1260	77.8
55.0	11.317	33.523	25.569	0.1383	77.7
57.0	11.312	33.523	25.570	0.1432	77.9



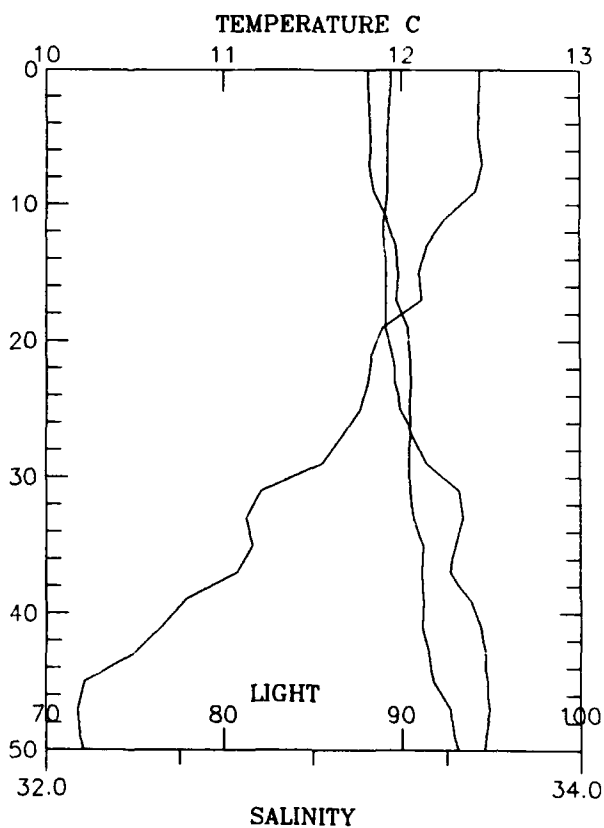
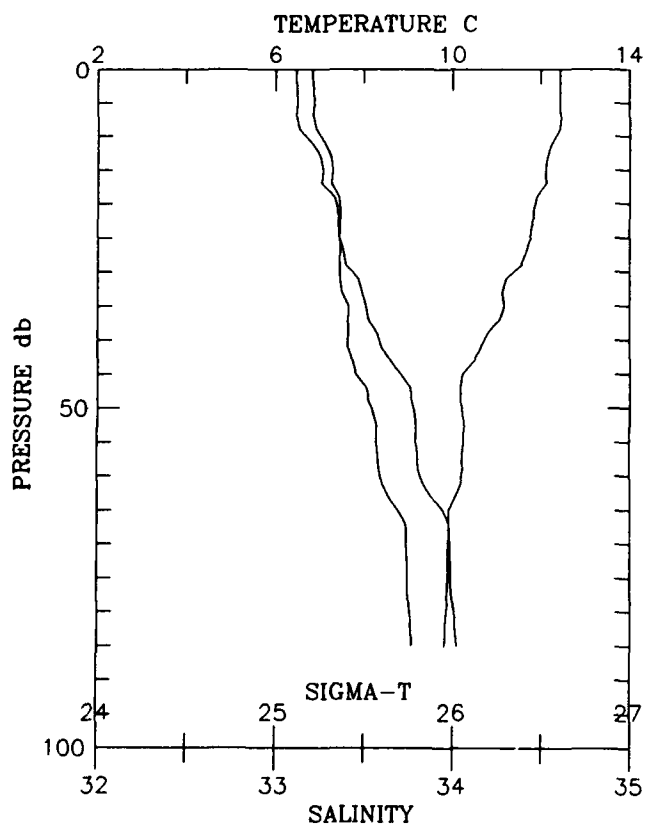
Cruise W8811 Station # 38 Depth m: 78 Time: 16 NOV 1988,0834  
 Position: 38 39.80'N 123 27.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.162	33.295	25.235	0.0000	87.4
5.0	12.062	33.329	25.281	0.0055	86.8
10.0	11.805	33.398	25.382	0.0188	87.2
15.0	11.467	33.513	25.534	0.0315	83.4
20.0	11.297	33.544	25.589	0.0437	75.8
25.0	11.198	33.555	25.615	0.0557	71.9
30.0	10.948	33.601	25.696	0.0675	71.5
35.0	10.875	33.613	25.718	0.0791	71.6
40.0	10.781	33.625	25.744	0.0905	73.5
45.0	10.665	33.640	25.776	0.1018	76.4
50.0	10.573	33.645	25.797	0.1130	78.5
55.0	10.484	33.650	25.815	0.1241	79.7
60.0	10.446	33.651	25.823	0.1351	80.0
65.0	10.427	33.653	25.828	0.1461	80.8
69.0	10.378	33.660	25.842	0.1549	76.4



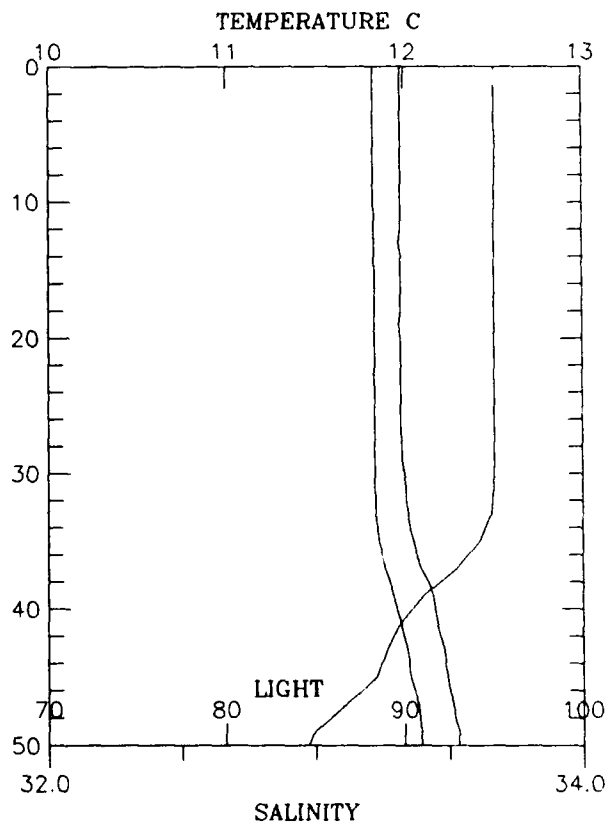
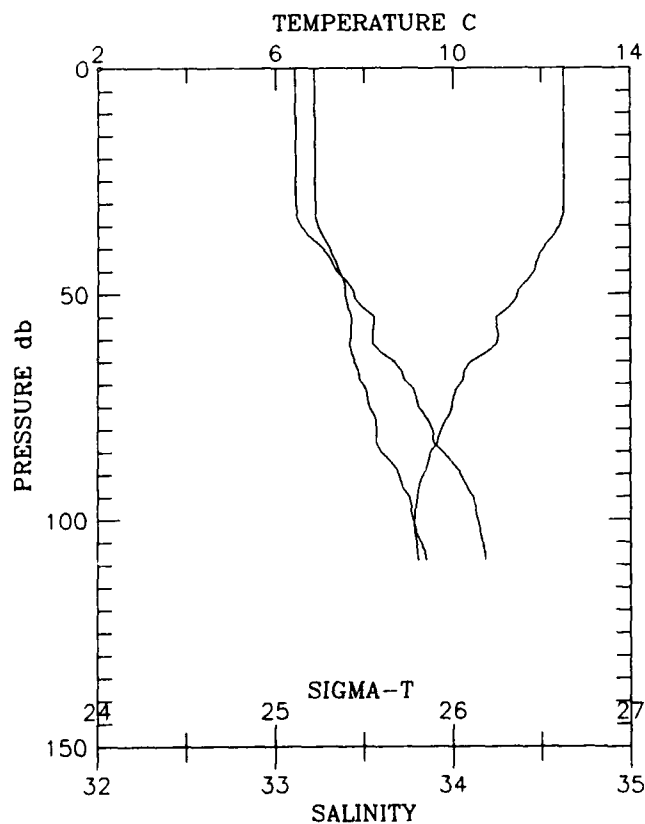
Cruise W8811 Station # 39 Depth m: 93 Time: 16 NOV 1988,0902  
 Position: 38 38.50'N 123 29.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.439	33.210	25.117	0.0000	89.4
5.0	12.427	33.217	25.124	0.0057	89.2
10.0	12.330	33.253	25.170	0.0200	89.1
15.0	12.097	33.321	25.268	0.0338	89.1
20.0	11.861	33.360	25.342	0.0473	89.3
25.0	11.765	33.363	25.362	0.0605	89.9
30.0	11.383	33.363	25.432	0.0735	92.3
35.0	11.163	33.412	25.510	0.0862	93.0
40.0	10.716	33.410	25.588	0.0985	94.1
45.0	10.218	33.451	25.706	0.1104	94.8
50.0	10.208	33.541	25.778	0.1217	94.6
55.0	10.250	33.572	25.795	0.1329	94.0
60.0	10.213	33.595	25.820	0.1440	94.3
65.0	9.913	33.693	25.947	0.1548	92.2
70.0	9.908	33.741	25.985	0.1651	68.0
75.0	9.896	33.746	25.991	0.1753	65.3
80.0	9.855	33.758	26.007	0.1855	63.3
85.0	9.821	33.769	26.021	0.1956	60.6



Cruise W8811 Station # 40 Depth m: 117 Time: 16 NOV 1988,0932  
 Position: 38 36.60'N 123 31.90'W Depth Deck Offset: 0.00

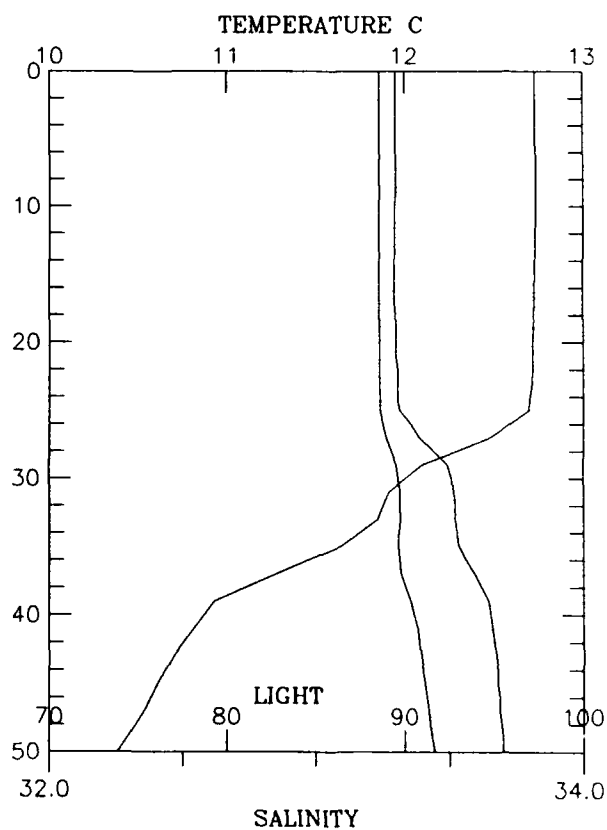
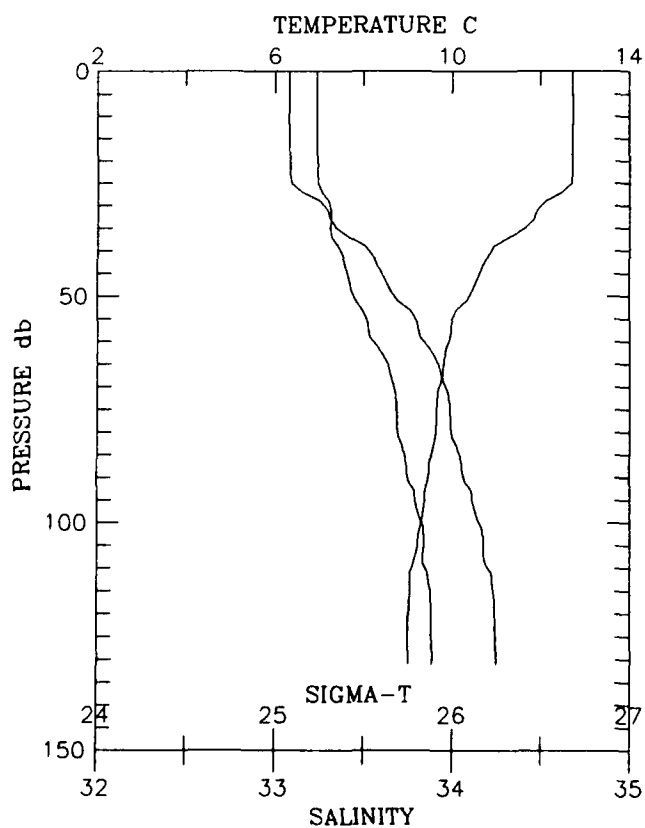
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.507	33.219	25.110	0.0000	89.8
10.0	12.507	33.220	25.111	0.0258	89.8
20.0	12.505	33.223	25.113	0.0545	89.8
30.0	12.502	33.225	25.115	0.0833	90.0
40.0	12.042	33.305	25.265	0.1115	91.7
50.0	11.462	33.395	25.443	0.1380	93.0
60.0	11.006	33.422	25.546	0.1629	93.7
70.0	10.145	33.491	25.750	0.1866	95.3
80.0	9.727	33.568	25.880	0.2087	95.9
90.0	9.333	33.695	26.044	0.2296	96.1
100.0	9.134	33.777	26.139	0.2491	94.4
109.0	9.212	33.849	26.184	0.2660	76.4





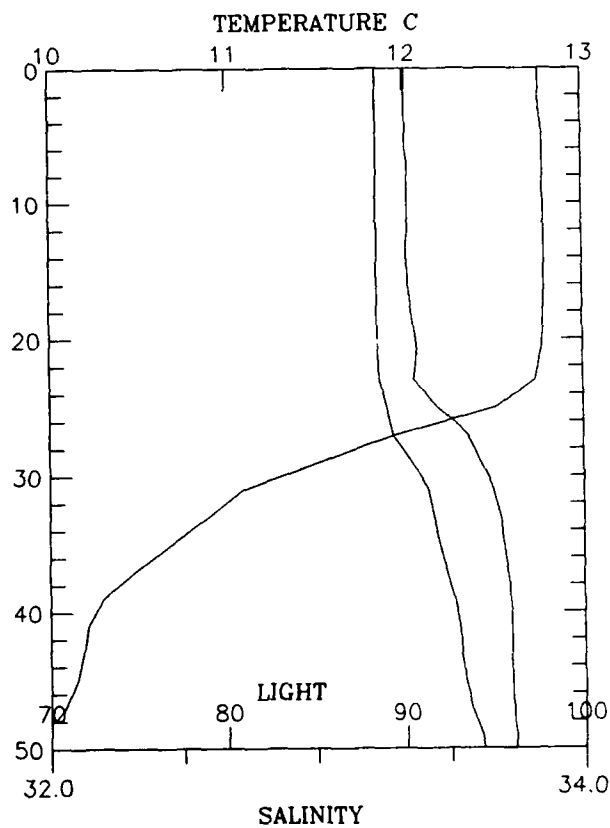
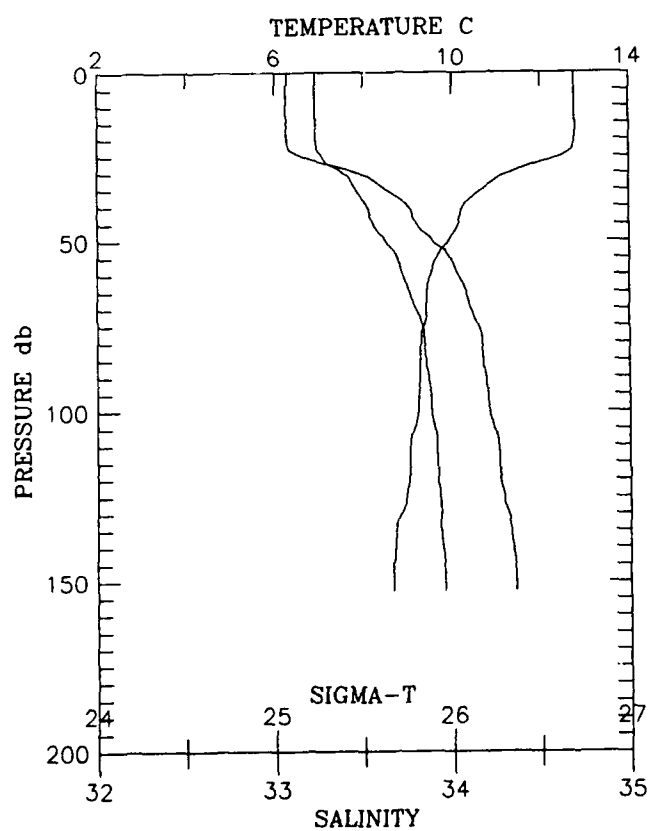
Cruise W8811 Station # 41 Depth m: 139 Time: 16 NOV 1988 1005  
 Position: 38 35.30'N 123 33.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.729	33.237	25.081	0.0000	89.5
10.0	12.733	33.236	25.079	0.0261	89.4
20.0	12.717	33.238	25.085	0.0551	89.5
30.0	12.003	33.308	25.275	0.0836	92.6
40.0	10.870	33.367	25.527	0.1099	94.8
50.0	10.384	33.445	25.673	0.1340	95.5
60.0	9.910	33.554	25.838	0.1565	95.7
70.0	9.707	33.670	25.962	0.1777	95.5
80.0	9.626	33.692	25.994	0.1982	95.7
90.0	9.462	33.752	26.067	0.2183	95.6
100.0	9.297	33.825	26.151	0.2376	95.3
110.0	9.083	33.847	26.203	0.2564	88.7
120.0	9.018	33.881	26.239	0.2747	80.6
130.0	8.996	33.884	26.245	0.2928	80.4
131.0	8.996	33.883	26.245	0.2946	80.5



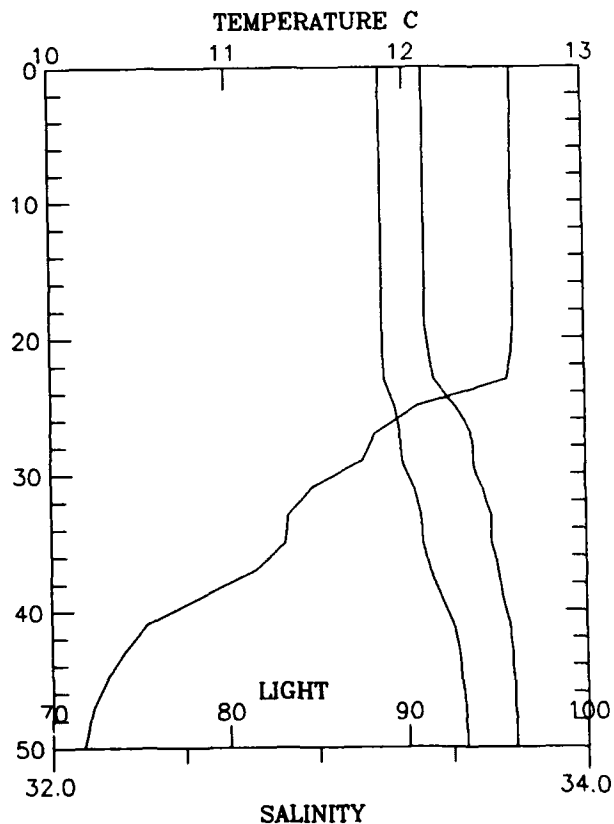
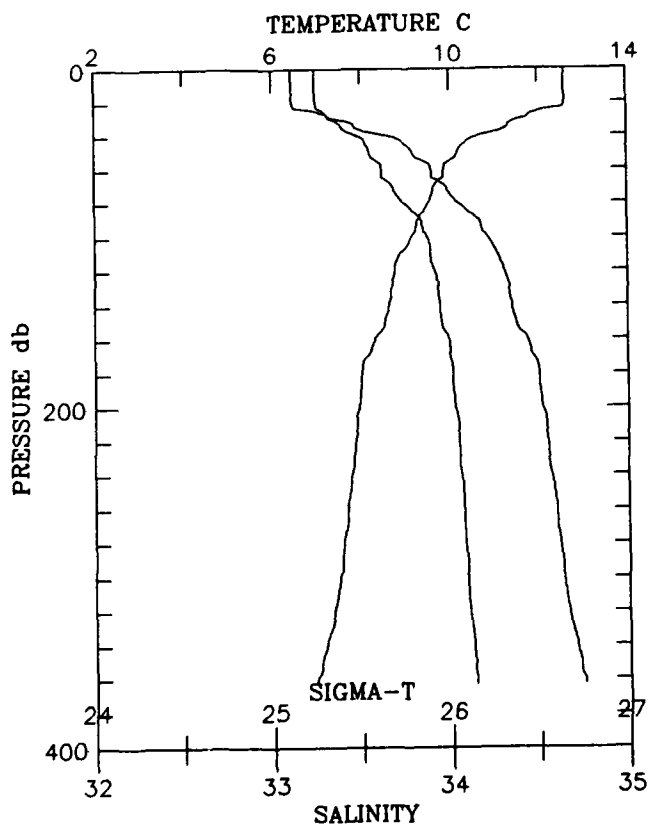
Cruise W8811 Station # 42 Depth m: 163 Time: 16 NOV 1988,1043  
 Position: 38 33.10'N 123 36.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.763	33.231	25.069	0.0000	90.1
10.0	12.785	33.229	25.064	0.0262	90.2
20.0	12.771	33.232	25.069	0.0554	90.6
30.0	11.302	33.388	25.466	0.0833	94.6
40.0	10.252	33.522	25.755	0.1071	95.9
50.0	9.919	33.622	25.890	0.1292	96.1
60.0	9.517	33.722	26.035	0.1498	96.0
70.0	9.427	33.797	26.108	0.1694	95.3
80.0	9.286	33.843	26.167	0.1885	95.1
90.0	9.256	33.865	26.189	0.2072	95.0
100.0	9.214	33.880	26.208	0.2257	94.7
110.0	9.041	33.910	26.258	0.2439	90.6
120.0	9.007	33.916	26.268	0.2619	88.7
130.0	8.823	33.931	26.309	0.2796	93.1
140.0	8.689	33.941	26.338	0.2970	93.4
150.0	8.646	33.954	26.355	0.3142	92.6
153.0	8.650	33.954	26.355	0.3193	92.2



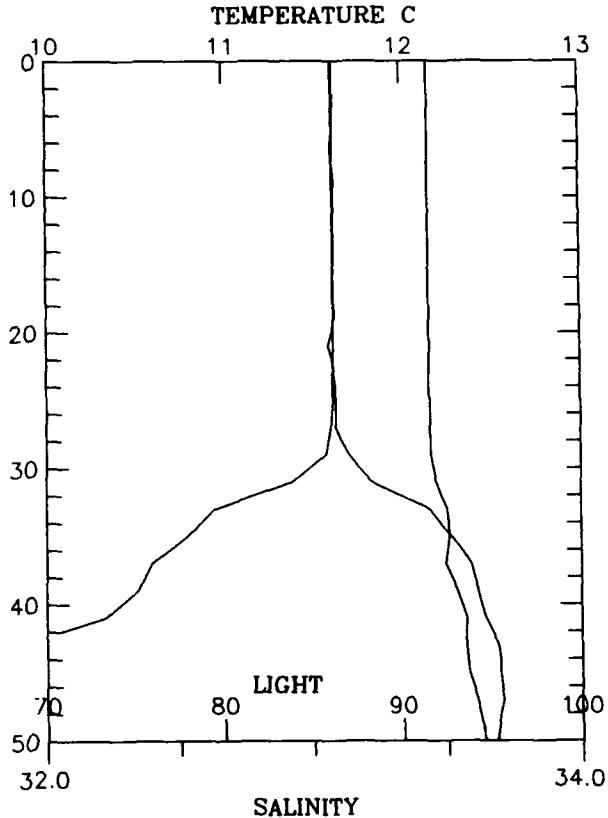
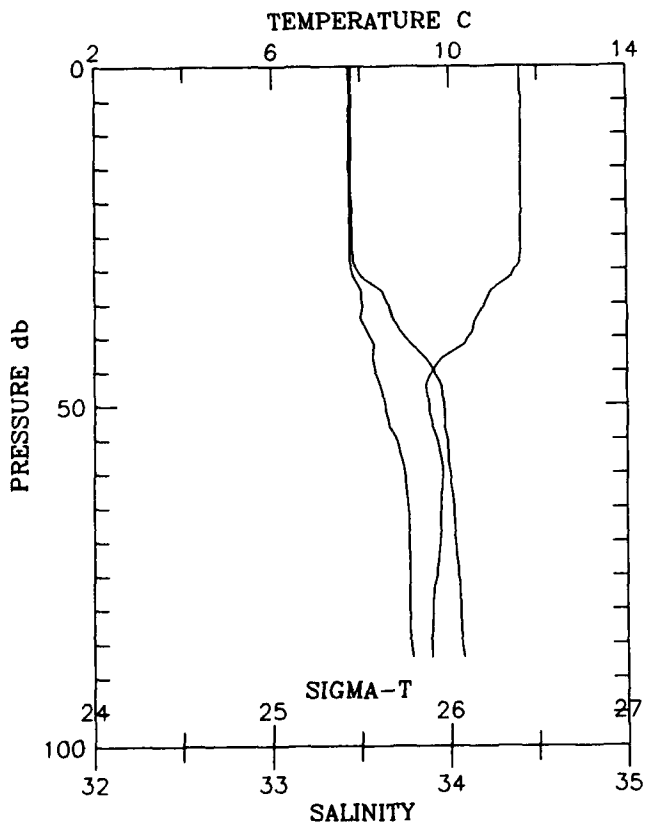
Cruise W8811 Station # 43 Depth m: 395 Time: 16 NOV 1988,1124  
 Position: 38 31.10'N 123 39.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.602	33.245	25.112	0.0000	91.1
10.0	12.597	33.245	25.113	0.0258	91.1
20.0	12.597	33.248	25.115	0.0545	91.2
30.0	11.609	33.337	25.371	0.0821	93.9
40.0	10.682	33.481	25.649	0.1073	95.5
50.0	10.177	33.549	25.790	0.1300	96.0
60.0	9.870	33.618	25.895	0.1518	96.1
80.0	9.533	33.742	26.048	0.1932	96.1
100.0	9.134	33.871	26.213	0.2313	96.1
150.0	8.527	33.953	26.373	0.3188	95.8
200.0	7.930	34.025	26.518	0.3991	94.3
250.0	7.725	34.068	26.583	0.4758	95.0
300.0	7.490	34.091	26.635	0.5503	95.2
363.0	6.948	34.131	26.742	0.6399	95.8



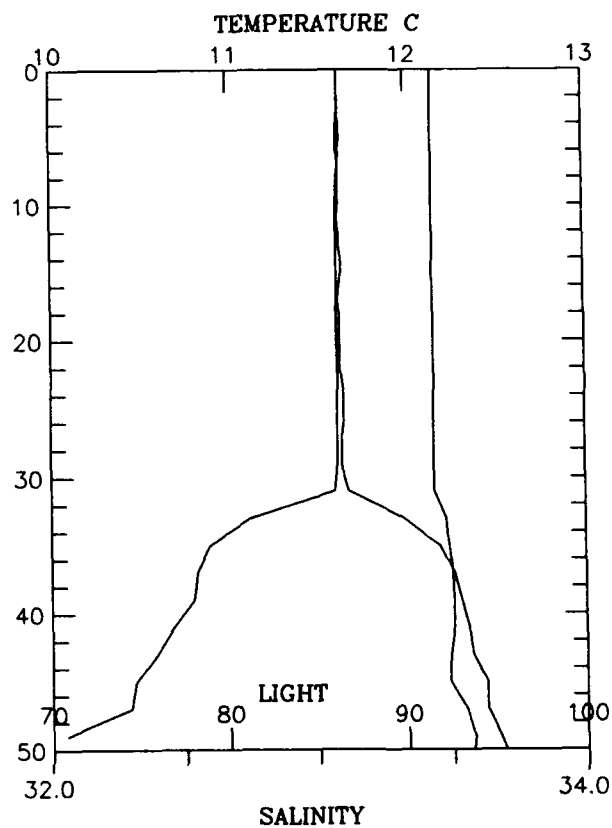
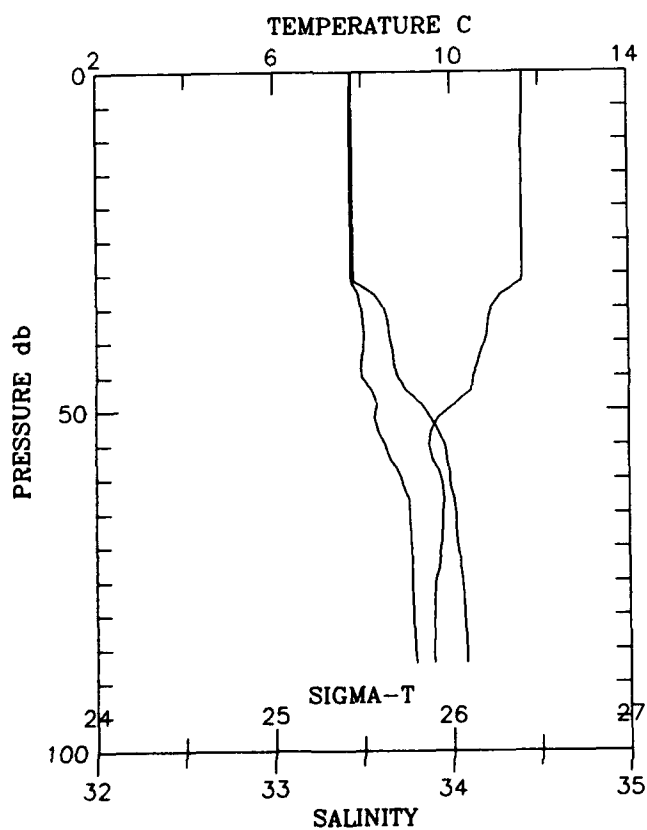
Cruise W8811 Station # 44 Depth m: 95 Time: 18 NOV 1988,0538  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.613	33.435	25.447	0.0000	86.2
5.0	11.616	33.436	25.446	0.0051	86.2
10.0	11.618	33.435	25.446	0.0179	86.2
15.0	11.618	33.435	25.446	0.0306	86.2
20.0	11.616	33.436	25.447	0.0434	86.1
25.0	11.613	33.437	25.448	0.0562	86.3
30.0	11.479	33.449	25.482	0.0689	87.6
35.0	10.789	33.508	25.652	0.0811	92.7
40.0	10.417	33.553	25.751	0.0927	94.4
45.0	9.595	33.579	25.910	0.1036	95.4
50.0	9.519	33.633	25.965	0.1140	95.2
55.0	9.716	33.701	25.985	0.1243	90.3
60.0	9.833	33.744	26.000	0.1345	75.4
65.0	9.797	33.766	26.023	0.1447	75.5
70.0	9.774	33.769	26.029	0.1547	77.4
75.0	9.691	33.774	26.046	0.1647	81.5
80.0	9.608	33.774	26.061	0.1747	84.8
85.0	9.586	33.779	26.068	0.1846	85.2
87.0	9.589	33.790	26.076	0.1885	84.2



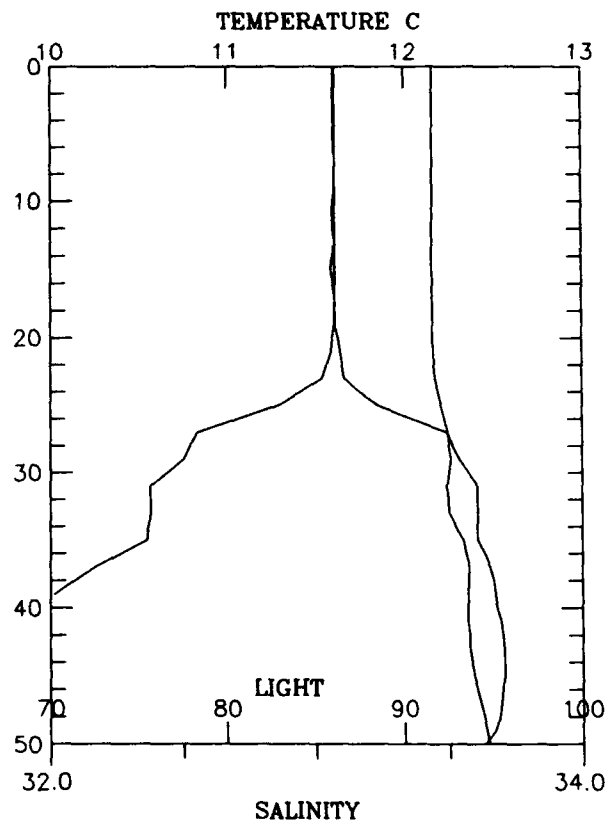
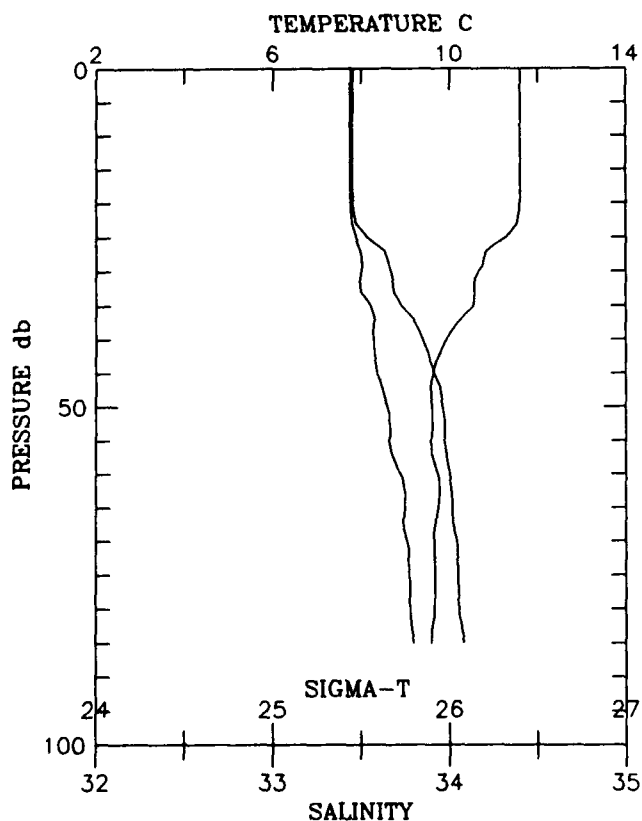
Cruise W8811 Station # 45 Depth m: 95 Time: 18 NOV 1988,0549  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.629	33.436	25.444	0.0000	86.3
5.0	11.638	33.435	25.441	0.0051	86.2
10.0	11.614	33.435	25.446	0.0179	86.3
15.0	11.613	33.433	25.445	0.0306	86.4
20.0	11.611	33.434	25.446	0.0434	86.3
25.0	11.613	33.434	25.446	0.0562	86.5
30.0	11.603	33.435	25.448	0.0690	86.5
35.0	10.890	33.490	25.619	0.0813	91.8
40.0	10.740	33.504	25.657	0.0932	93.2
45.0	10.467	33.487	25.691	0.1049	94.4
50.0	9.889	33.573	25.857	0.1162	95.4
55.0	9.497	33.625	25.962	0.1268	95.4
60.0	9.753	33.713	25.988	0.1370	84.6
65.0	9.787	33.761	26.021	0.1472	78.0
70.0	9.747	33.772	26.036	0.1573	79.5
75.0	9.616	33.771	26.057	0.1672	84.4
80.0	9.591	33.779	26.067	0.1771	85.1
85.0	9.571	33.788	26.077	0.1870	85.5
87.0	9.579	33.792	26.079	0.1909	84.8



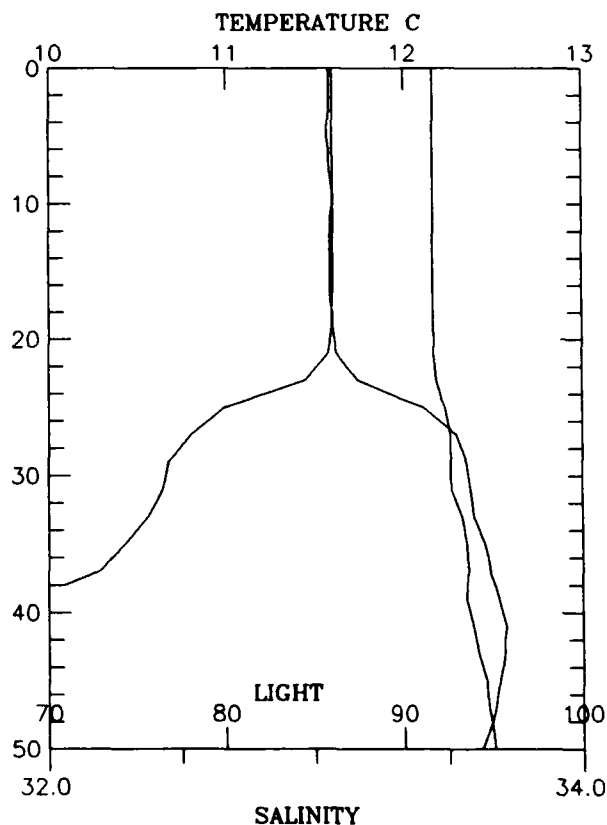
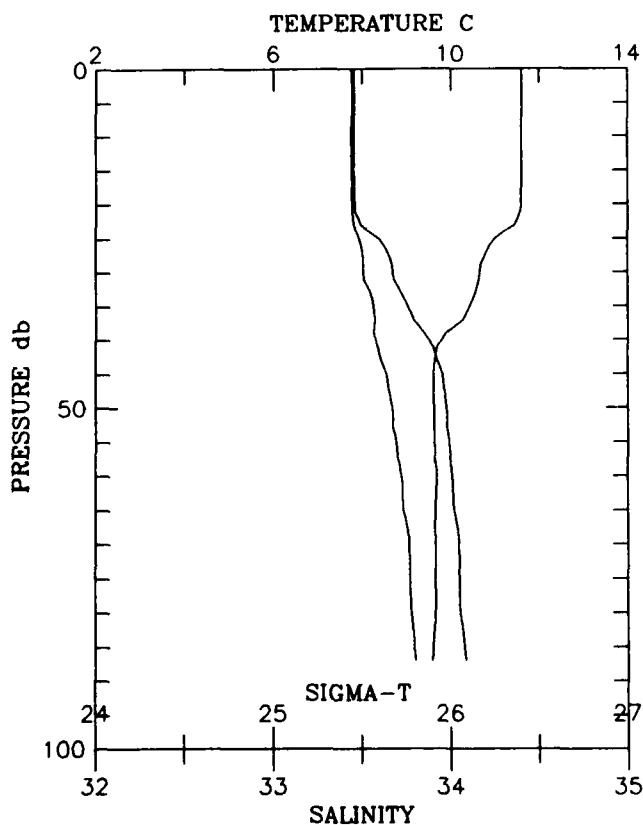
Cruise W8811 Station # 46 Depth m: 95 Time: 18 NOV 1988,0559  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.602	33.440	25.452	0.0000	86.1
5.0	11.602	33.439	25.451	0.0051	86.1
10.0	11.609	33.439	25.450	0.0178	86.0
15.0	11.610	33.438	25.449	0.0306	85.9
20.0	11.597	33.440	25.453	0.0433	86.3
25.0	11.291	33.470	25.532	0.0560	88.5
30.0	10.660	33.500	25.668	0.0679	93.6
35.0	10.547	33.553	25.729	0.0795	94.1
40.0	9.932	33.571	25.848	0.0906	95.2
45.0	9.638	33.592	25.913	0.1013	95.6
50.0	9.604	33.649	25.963	0.1118	94.5
55.0	9.588	33.660	25.974	0.1221	94.5
60.0	9.726	33.722	26.000	0.1323	86.2
65.0	9.746	33.745	26.015	0.1424	82.1
70.0	9.651	33.758	26.041	0.1525	88.0
75.0	9.676	33.774	26.049	0.1625	84.7
80.0	9.663	33.778	26.054	0.1724	84.4
85.0	9.593	33.797	26.081	0.1823	83.4



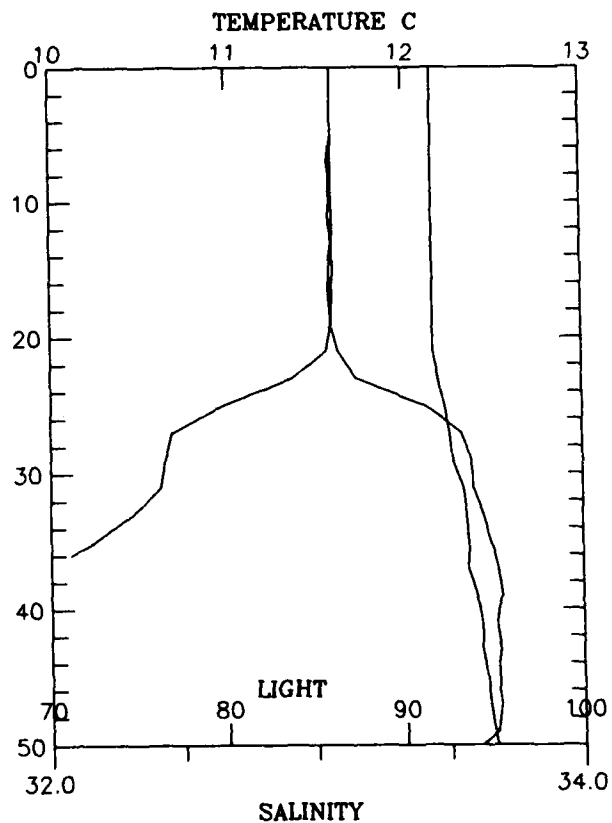
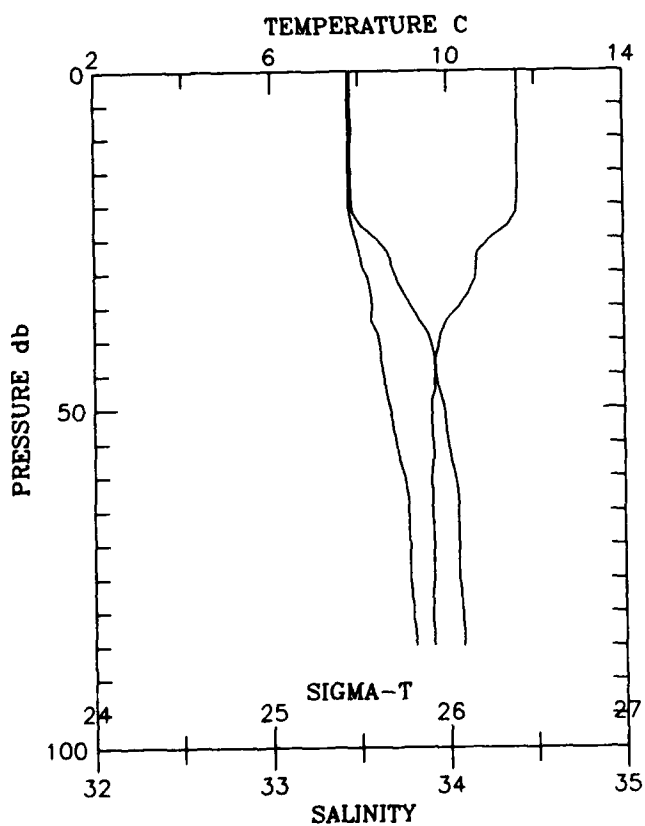
Cruise W8811 Station # 47 Depth m: 95 Time: 18 NOV 1988,0608  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.598	33.442	25.455	0.0000	85.8
5.0	11.600	33.443	25.455	0.0051	85.7
10.0	11.601	33.442	25.454	0.0178	86.0
15.0	11.603	33.442	25.453	0.0305	85.9
20.0	11.585	33.444	25.458	0.0433	86.1
25.0	10.990	33.485	25.599	0.0558	91.1
30.0	10.660	33.508	25.674	0.0676	93.6
35.0	10.429	33.566	25.759	0.0791	94.5
40.0	9.796	33.577	25.875	0.0902	95.5
45.0	9.610	33.639	25.954	0.1007	95.3
50.0	9.624	33.669	25.976	0.1110	94.3
55.0	9.630	33.692	25.992	0.1213	92.6
60.0	9.679	33.723	26.009	0.1315	90.0
65.0	9.658	33.733	26.020	0.1416	89.5
70.0	9.649	33.766	26.047	0.1516	86.8
75.0	9.662	33.774	26.051	0.1615	85.5
80.0	9.658	33.779	26.056	0.1715	84.6
85.0	9.602	33.795	26.078	0.1814	83.5
87.0	9.587	33.800	26.084	0.1853	82.9



Cruise W8811 Station # 48 Depth m: 95 Time: 18 NOV 1988,0616  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

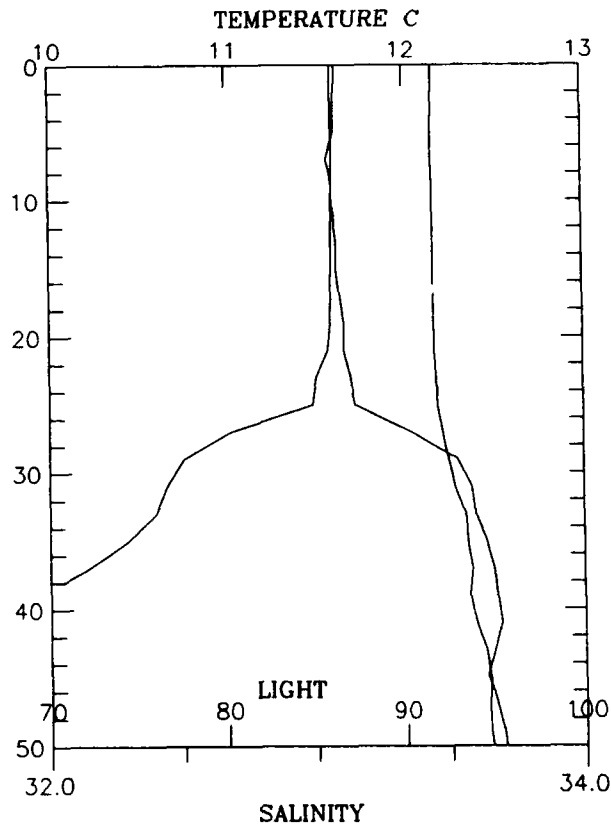
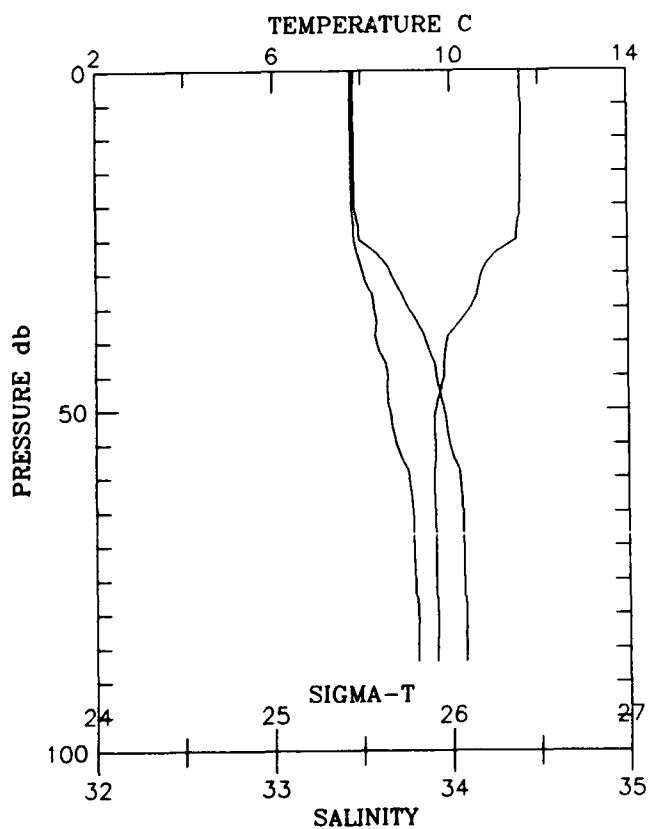
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.599	33.441	25.453	0.0000	86.0
5.0	11.599	33.441	25.453	0.0051	86.0
10.0	11.600	33.441	25.453	0.0178	85.9
15.0	11.601	33.442	25.454	0.0305	85.8
20.0	11.578	33.442	25.458	0.0433	86.1
25.0	10.973	33.484	25.601	0.0557	91.1
30.0	10.634	33.531	25.697	0.0675	93.8
35.0	10.247	33.572	25.796	0.0789	94.8
40.0	9.800	33.609	25.900	0.0897	95.2
45.0	9.720	33.636	25.934	0.1003	95.2
50.0	9.620	33.669	25.976	0.1107	94.2
55.0	9.654	33.708	26.001	0.1209	92.9
60.0	9.620	33.749	26.039	0.1310	89.0
65.0	9.639	33.774	26.055	0.1409	85.5
70.0	9.649	33.778	26.057	0.1508	84.8
75.0	9.654	33.779	26.057	0.1607	84.4
80.0	9.618	33.793	26.073	0.1706	83.4
85.0	9.653	33.811	26.081	0.1804	80.6





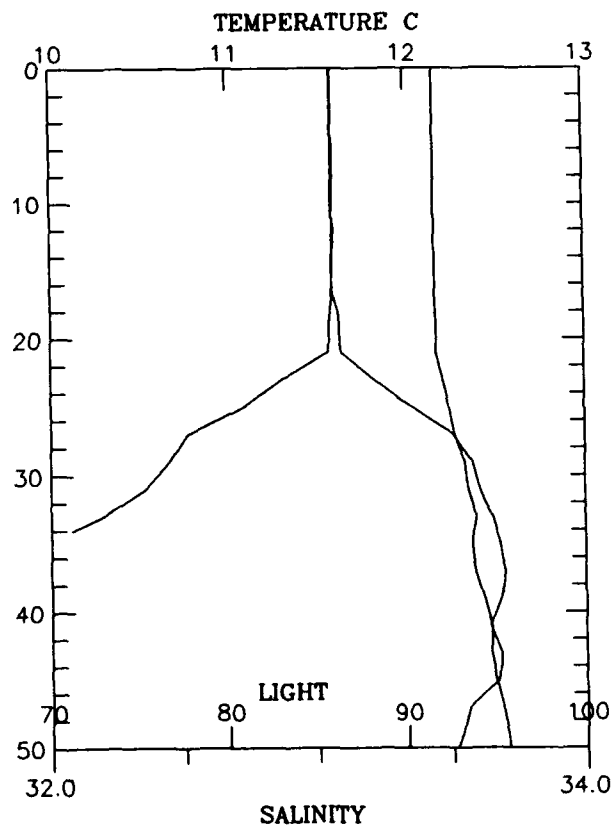
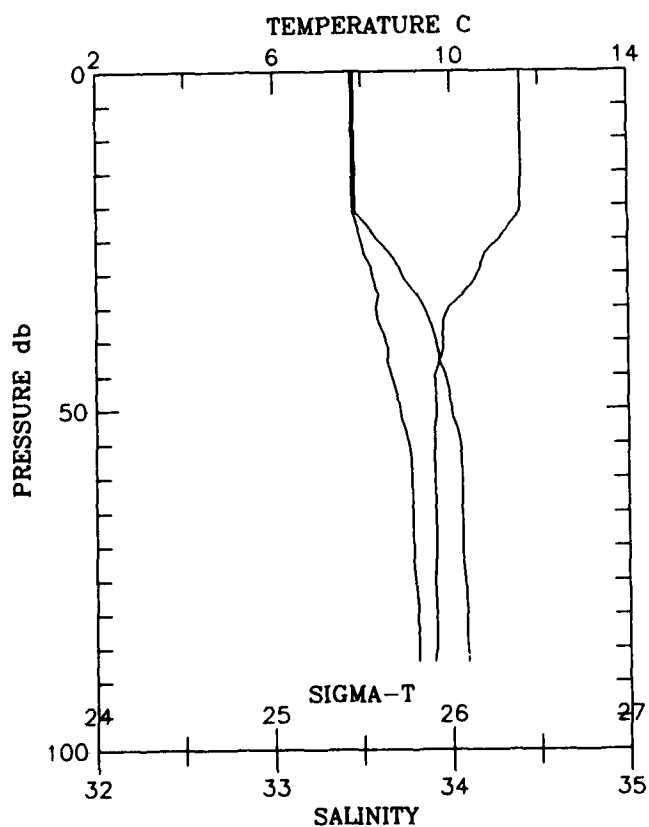
Cruise W8811 Station # 49 Depth m: 95 Time: 18 NOV 1988,0623  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.597	33.442	25.454	0.0000	86.2
5.0	11.598	33.438	25.451	0.0051	86.1
10.0	11.596	33.441	25.454	0.0178	86.0
15.0	11.590	33.442	25.456	0.0305	86.2
20.0	11.577	33.444	25.460	0.0433	86.6
25.0	11.484	33.454	25.485	0.0559	87.2
30.0	10.709	33.507	25.665	0.0680	93.3
35.0	10.436	33.564	25.757	0.0795	94.5
40.0	9.901	33.581	25.861	0.0905	95.2
45.0	9.844	33.644	25.919	0.1012	94.5
50.0	9.641	33.651	25.959	0.1117	95.5
55.0	9.644	33.690	25.989	0.1220	93.7
60.0	9.613	33.762	26.050	0.1320	87.5
65.0	9.627	33.780	26.062	0.1419	84.6
70.0	9.639	33.786	26.065	0.1518	83.6
75.0	9.640	33.792	26.069	0.1617	82.8
80.0	9.667	33.807	26.077	0.1715	80.9
85.0	9.654	33.805	26.077	0.1814	81.0
87.0	9.654	33.805	26.077	0.1853	81.1



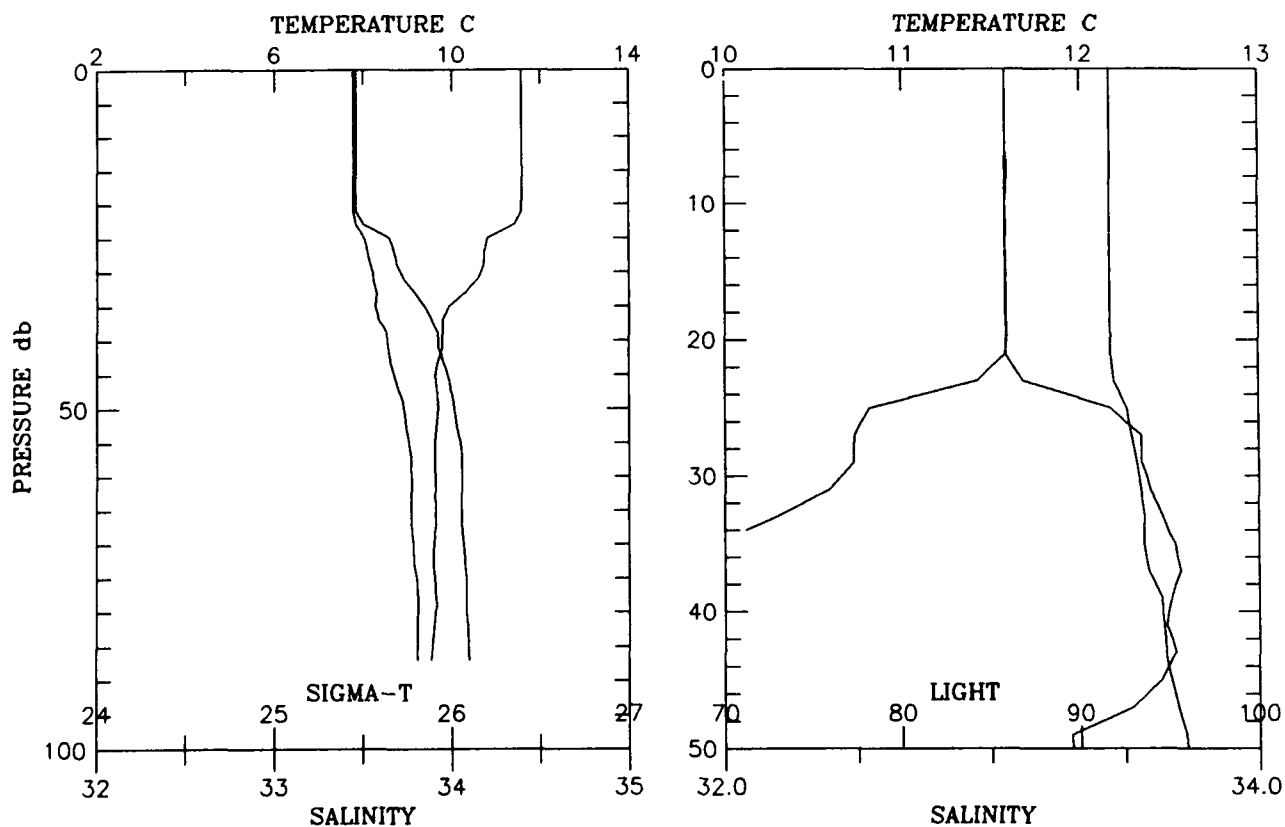
Cruise W8811 Station # 50 Depth m: 95 Time: 18 NOV 1988,0634  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.592	33.442	25.456	0.0000	85.9
5.0	11.593	33.443	25.456	0.0051	85.9
10.0	11.594	33.443	25.456	0.0178	85.9
15.0	11.592	33.444	25.457	0.0305	85.9
20.0	11.569	33.447	25.463	0.0432	86.3
25.0	11.089	33.493	25.587	0.0557	90.3
30.0	10.599	33.556	25.723	0.0674	93.9
35.0	9.945	33.576	25.849	0.0786	95.2
40.0	9.817	33.632	25.915	0.0893	94.9
45.0	9.631	33.661	25.968	0.0997	95.1
50.0	9.663	33.709	26.001	0.1100	92.7
55.0	9.607	33.758	26.048	0.1200	87.9
60.0	9.628	33.776	26.059	0.1299	85.2
65.0	9.637	33.780	26.060	0.1398	84.6
70.0	9.641	33.781	26.060	0.1497	84.3
75.0	9.609	33.793	26.075	0.1596	84.1
80.0	9.639	33.805	26.080	0.1694	81.8
85.0	9.635	33.810	26.084	0.1792	81.2
87.0	9.596	33.809	26.090	0.1831	82.3



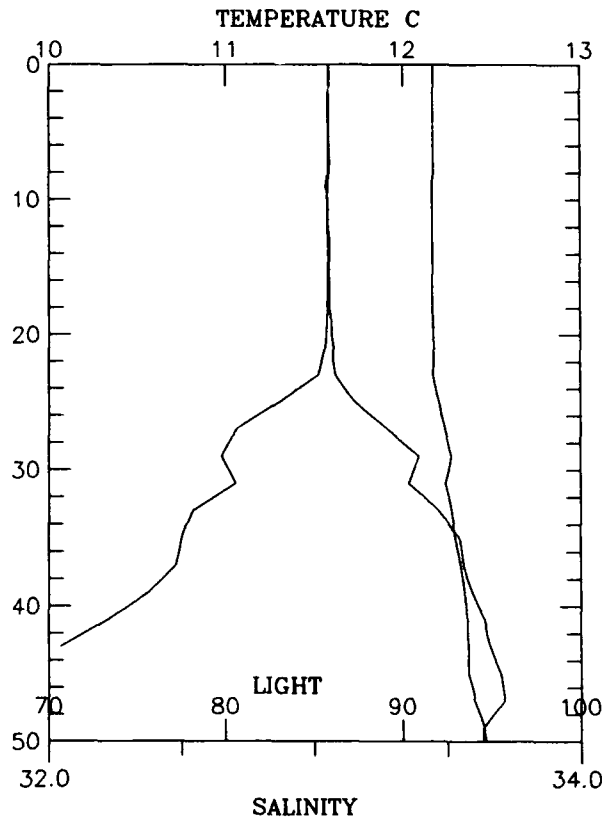
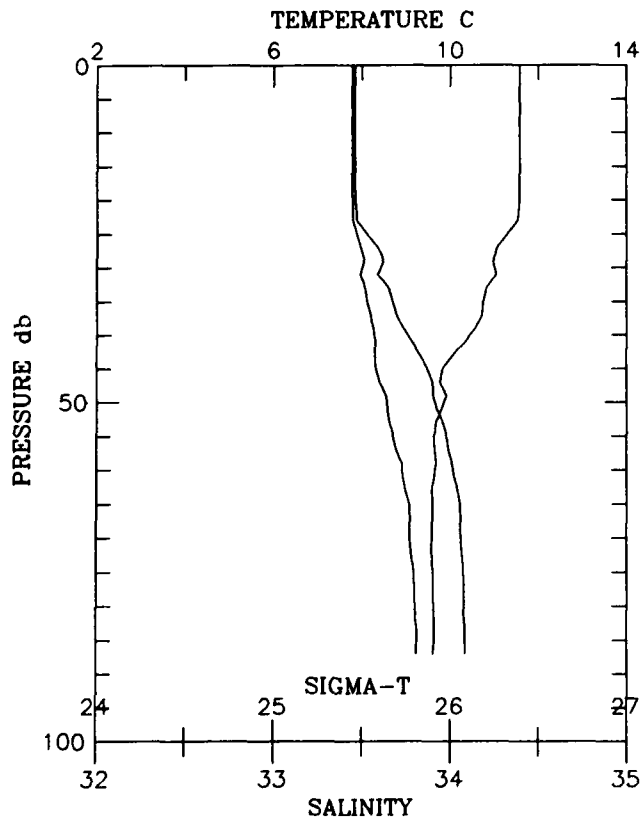
Cruise W8811 Station # 51 Depth m: 95 Time: 18 NOV 1988,0642  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.580	33.445	25.460	0.0000	85.8
5.0	11.581	33.445	25.460	0.0051	85.8
10.0	11.582	33.445	25.460	0.0178	85.8
15.0	11.585	33.445	25.459	0.0305	85.8
20.0	11.584	33.446	25.460	0.0432	85.9
25.0	10.812	33.508	25.648	0.0556	91.7
30.0	10.656	33.552	25.709	0.0673	93.7
35.0	9.937	33.570	25.846	0.0785	95.3
40.0	9.791	33.639	25.925	0.0892	94.9
45.0	9.627	33.672	25.977	0.0996	94.5
50.0	9.683	33.730	26.014	0.1098	89.5
55.0	9.609	33.758	26.048	0.1198	88.0
60.0	9.625	33.771	26.055	0.1297	86.3
65.0	9.635	33.772	26.055	0.1397	86.0
70.0	9.597	33.781	26.067	0.1496	85.9
75.0	9.614	33.800	26.080	0.1594	83.9
80.0	9.632	33.808	26.083	0.1692	81.6
85.0	9.558	33.806	26.094	0.1790	84.3
87.0	9.542	33.809	26.098	0.1829	84.9



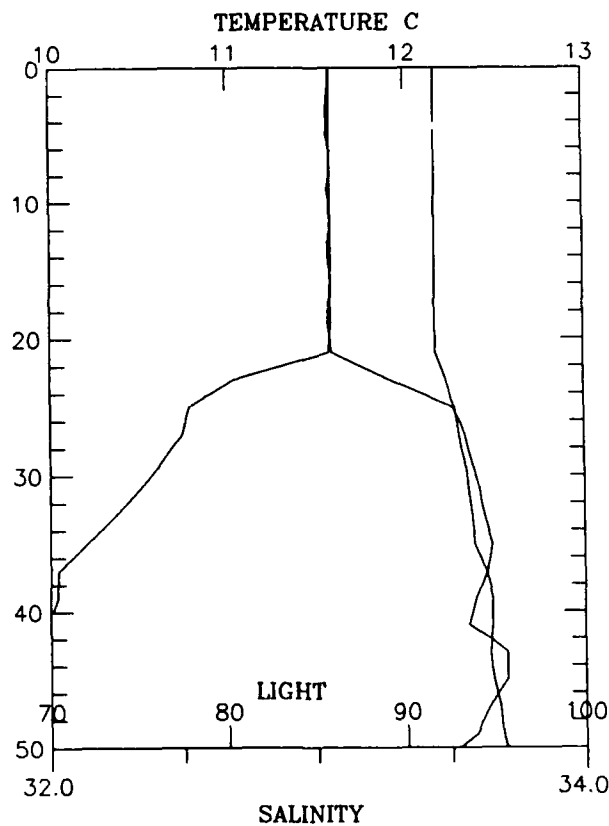
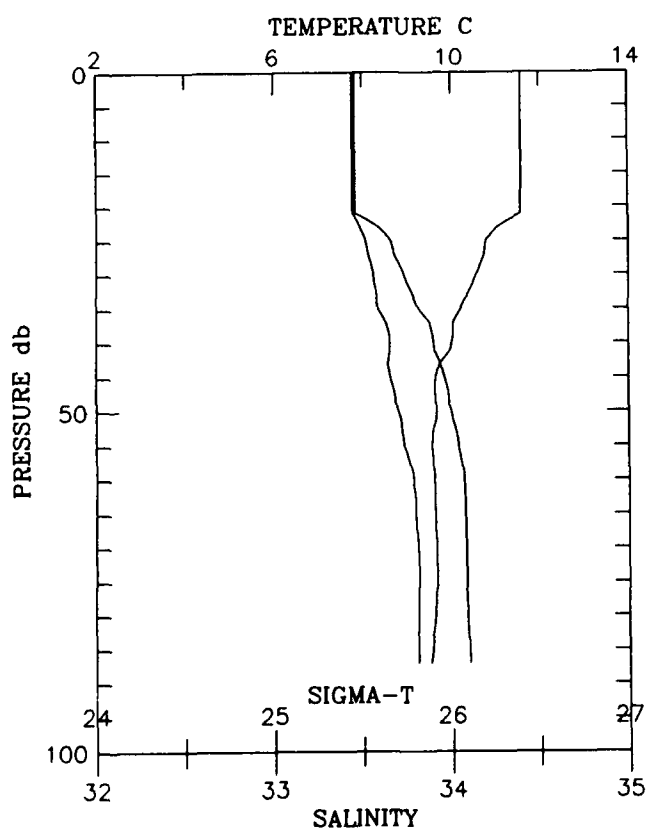
Cruise W8811 Station # 52 Depth m: 95 Time: 18 NOV 1988,0652  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.583	33.446	25.460	0.0000	85.8
5.0	11.584	33.446	25.460	0.0051	85.8
10.0	11.579	33.445	25.460	0.0178	85.8
15.0	11.581	33.446	25.460	0.0305	85.9
20.0	11.568	33.447	25.464	0.0432	86.0
25.0	11.302	33.468	25.529	0.0558	87.3
30.0	11.017	33.504	25.608	0.0679	90.6
35.0	10.750	33.530	25.676	0.0798	93.2
40.0	10.448	33.569	25.759	0.0913	94.2
45.0	9.838	33.579	25.870	0.1023	95.5
50.0	9.858	33.641	25.915	0.1130	94.5
55.0	9.635	33.678	25.981	0.1234	94.2
60.0	9.658	33.730	26.017	0.1336	91.3
65.0	9.600	33.767	26.056	0.1436	87.1
70.0	9.594	33.773	26.062	0.1535	86.5
75.0	9.612	33.794	26.075	0.1633	83.8
80.0	9.628	33.801	26.078	0.1732	82.8
85.0	9.640	33.811	26.084	0.1830	80.9
87.0	9.616	33.808	26.086	0.1869	81.6



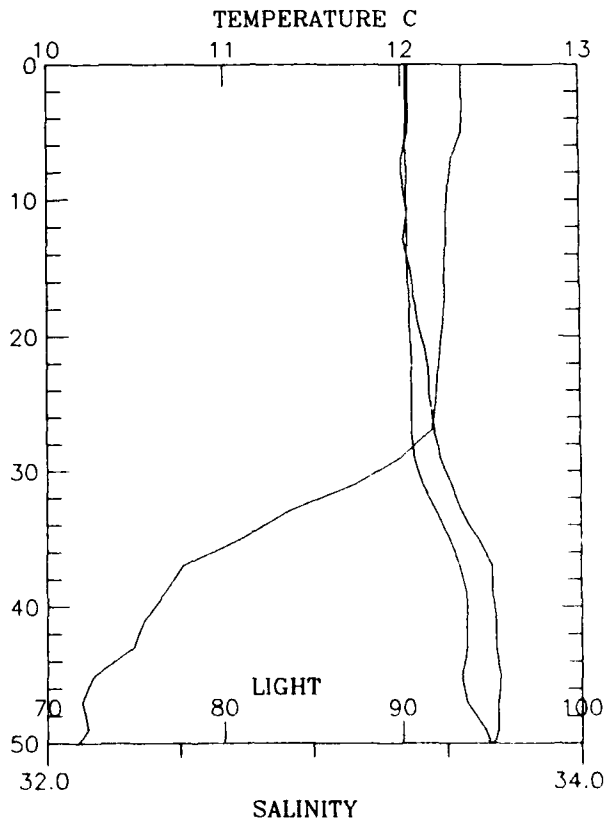
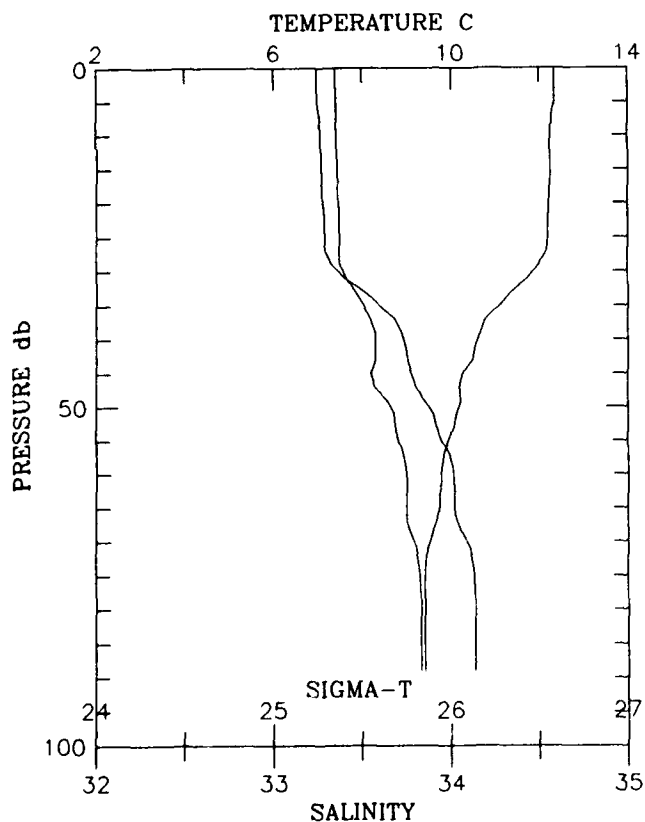
Cruise W8811 Station # 53 Depth m: 95 Time: 18 NOV 1988,0657  
 Position: 38 38.20'N 123 29.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.585	33.446	25.460	0.0000	85.8
5.0	11.586	33.446	25.459	0.0051	85.7
10.0	11.586	33.445	25.459	0.0178	85.8
15.0	11.585	33.445	25.459	0.0305	85.8
20.0	11.578	33.446	25.461	0.0432	85.8
25.0	10.780	33.516	25.659	0.0554	92.6
30.0	10.564	33.560	25.732	0.0670	93.9
35.0	10.203	33.588	25.815	0.0783	94.8
40.0	10.007	33.654	25.900	0.0890	93.7
45.0	9.640	33.656	25.963	0.0995	95.6
50.0	9.652	33.701	25.996	0.1098	92.9
55.0	9.557	33.734	26.038	0.1199	90.4
60.0	9.601	33.782	26.067	0.1298	85.2
65.0	9.622	33.796	26.075	0.1396	83.4
70.0	9.651	33.810	26.082	0.1494	80.7
75.0	9.650	33.812	26.083	0.1592	80.5
80.0	9.622	33.812	26.088	0.1690	81.2
85.0	9.548	33.808	26.097	0.1788	83.6
87.0	9.533	33.809	26.100	0.1827	84.5



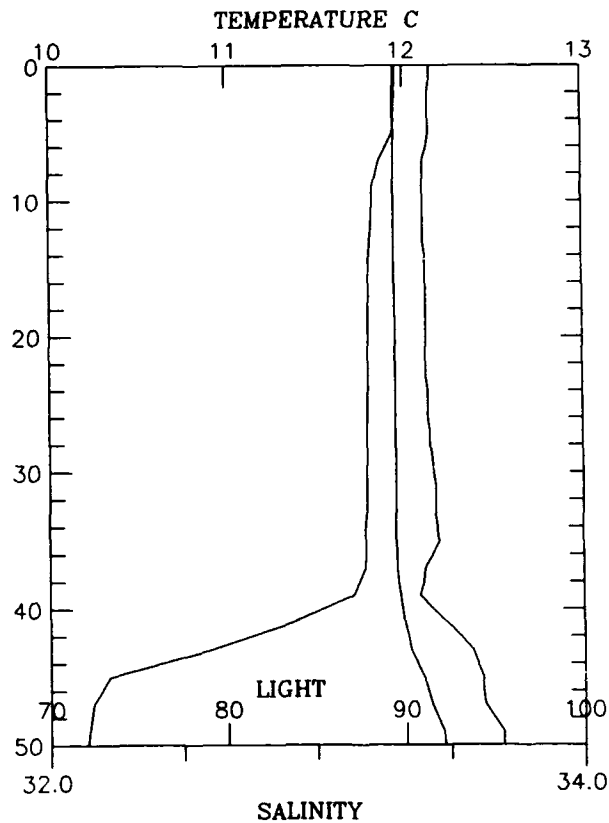
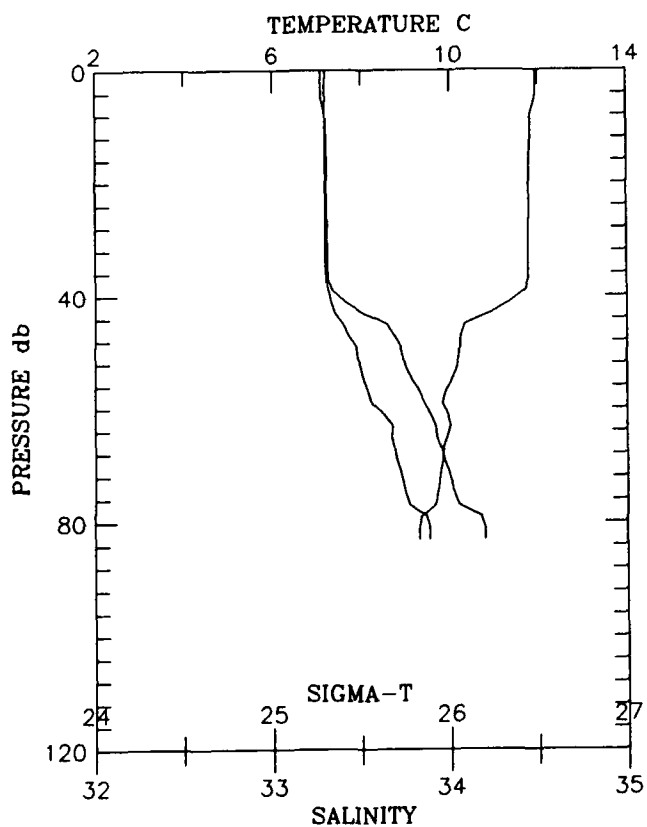
Cruise W8811 Station # 54 Depth m: 97 Time: 18 NOV 1988,2022  
 Position: 37 54.00'N 123 9.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.341	33.352	25.245	0.0000	90.40
5.0	12.340	33.351	25.244	0.0110	90.40
10.0	12.256	33.353	25.263	0.0246	90.20
15.0	12.243	33.357	25.267	0.0383	90.50
20.0	12.222	33.365	25.278	0.0519	91.10
25.0	12.188	33.370	25.288	0.0654	91.50
30.0	11.863	33.392	25.366	0.0788	92.40
35.0	11.098	33.506	25.595	0.0915	94.20
40.0	10.606	33.571	25.733	0.1031	95.10
45.0	10.264	33.551	25.776	0.1145	95.40
50.0	10.176	33.658	25.875	0.1255	95.10
55.0	9.949	33.703	25.948	0.1361	94.60
60.0	9.778	33.746	26.011	0.1463	92.90
65.0	9.741	33.749	26.019	0.1564	92.10
70.0	9.518	33.790	26.088	0.1663	93.30
75.0	9.417	33.825	26.132	0.1760	91.90
80.0	9.409	33.830	26.136	0.1855	91.20
85.0	9.408	33.830	26.137	0.1951	90.90
89.0	9.409	33.830	26.136	0.2027	90.80



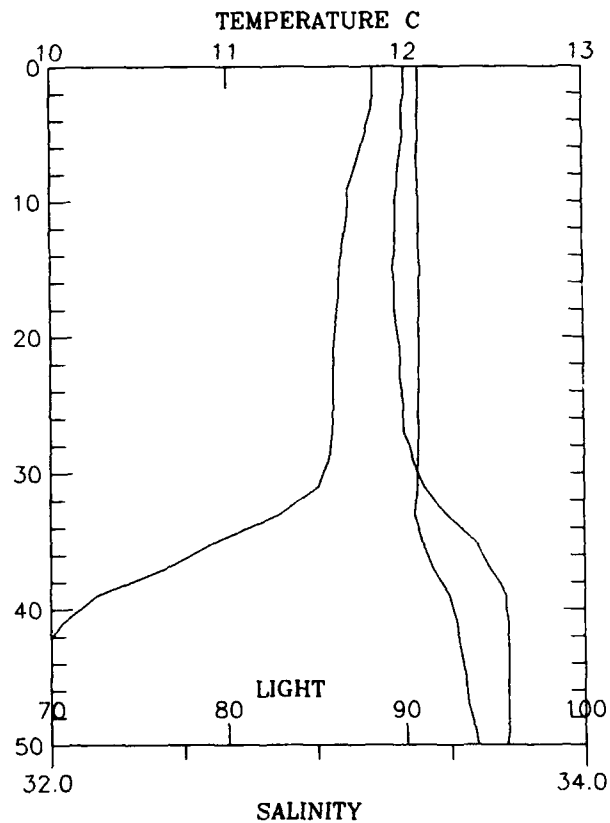
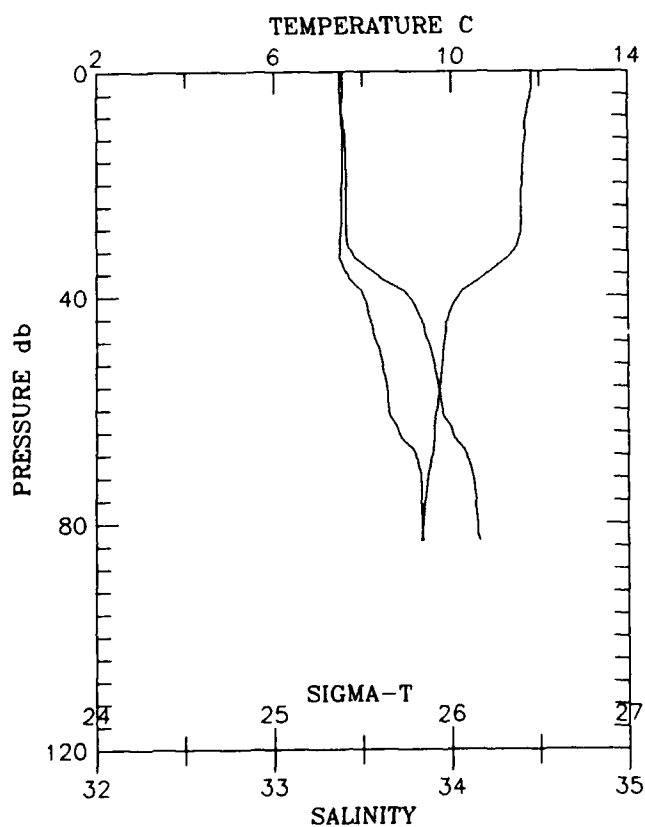
Cruise W8811 Station # 55 Depth m: 91 Time: 18 NOV 1988,2200  
 Position: 38 3.60'N 123 9.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.960	33.298	25.275	0.0000	91.50
5.0	11.942	33.298	25.278	0.0108	91.40
10.0	11.825	33.296	25.299	0.0243	91.10
15.0	11.801	33.297	25.304	0.0378	91.20
20.0	11.796	33.298	25.306	0.0512	91.20
25.0	11.793	33.298	25.307	0.0647	91.30
30.0	11.786	33.299	25.308	0.0781	91.60
35.0	11.777	33.300	25.311	0.0915	91.90
40.0	11.533	33.321	25.372	0.1049	91.50
45.0	10.331	33.398	25.645	0.1175	94.30
50.0	10.205	33.476	25.728	0.1291	95.40
55.0	10.021	33.513	25.788	0.1405	95.40
60.0	9.884	33.591	25.872	0.1514	95.00
65.0	9.939	33.671	25.925	0.1621	93.90
70.0	9.802	33.708	25.977	0.1725	93.30
75.0	9.707	33.745	26.021	0.1827	88.40
80.0	9.333	33.877	26.186	0.1924	80.50
83.0	9.299	33.886	26.198	0.1980	78.10



Cruise W8811 Station # 56 Depth m: 93 Time: 18 NOV 1988,2325  
 Position: 38 11.50'N 123 9.60'W Depth Deck Offset: 0.00

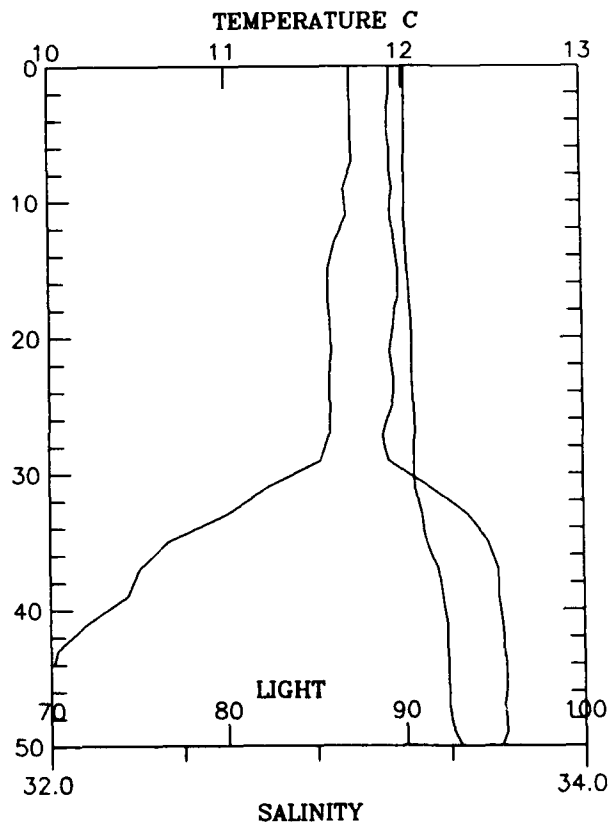
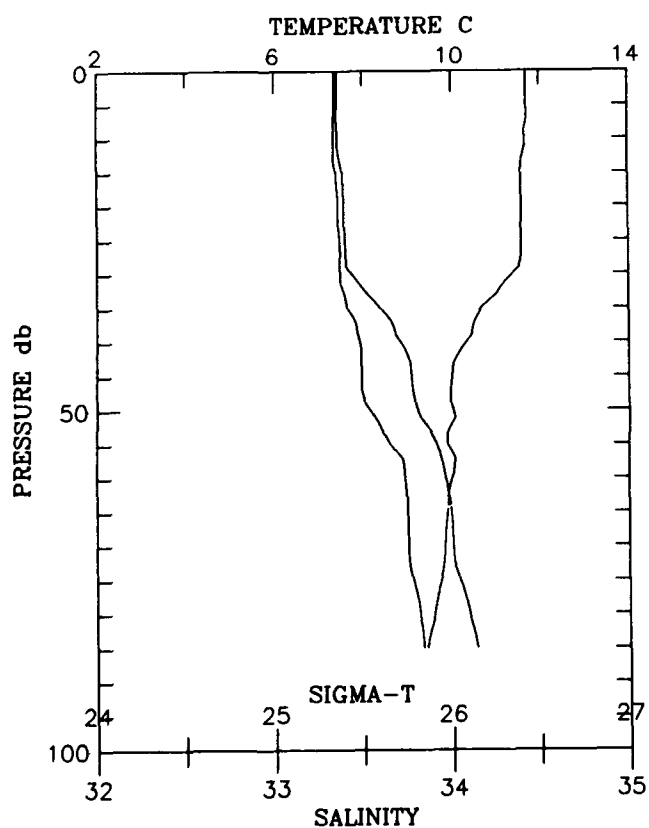
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.824	33.387	25.370	0.0000	90.00
5.0	11.779	33.385	25.376	0.0105	89.90
10.0	11.682	33.386	25.395	0.0235	89.50
15.0	11.633	33.388	25.406	0.0365	89.30
20.0	11.603	33.384	25.409	0.0495	89.60
25.0	11.594	33.382	25.409	0.0624	89.90
30.0	11.538	33.377	25.415	0.0754	90.70
35.0	10.935	33.394	25.537	0.0881	93.90
40.0	10.160	33.508	25.760	0.0999	95.60
45.0	9.877	33.554	25.844	0.1110	95.70
50.0	9.806	33.597	25.890	0.1218	95.60
55.0	9.759	33.634	25.926	0.1324	95.80
60.0	9.677	33.650	25.952	0.1429	95.90
65.0	9.605	33.717	26.016	0.1531	94.60
70.0	9.517	33.818	26.110	0.1630	83.30
75.0	9.422	33.832	26.136	0.1726	84.40
80.0	9.367	33.836	26.149	0.1821	85.10
83.0	9.319	33.841	26.160	0.1878	85.50





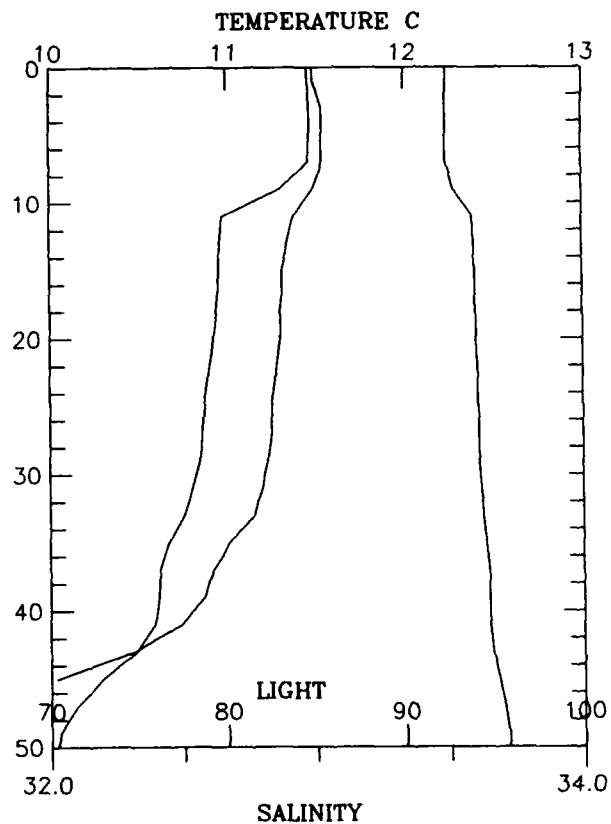
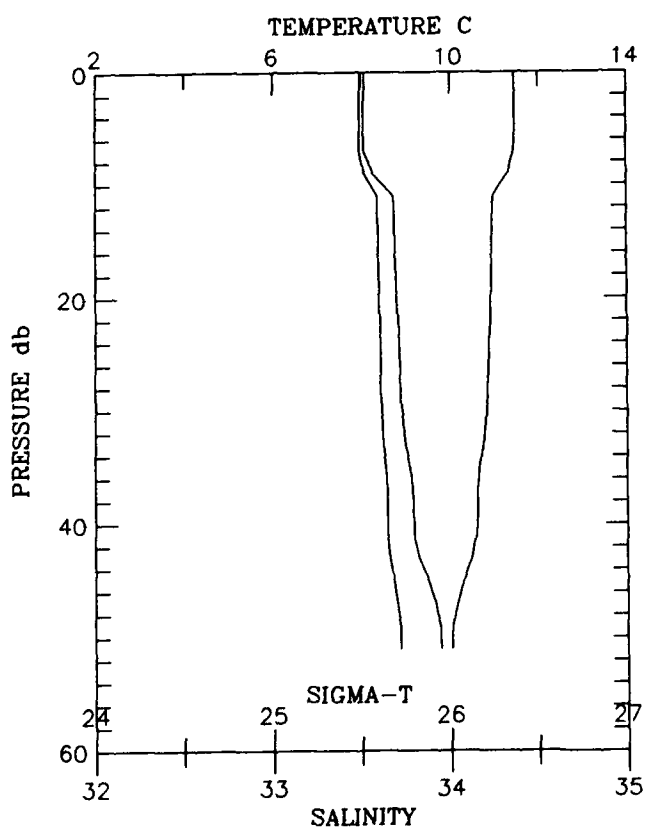
Cruise W8811 Station # 57 Depth m: 94 Time: 19 NOV 1988,0037  
 Position: 38 19.20'N 123 12.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.709	33.343	25.357	0.0000	89.30
5.0	11.713	33.342	25.356	0.0105	89.20
10.0	11.675	33.339	25.360	0.0237	89.30
15.0	11.578	33.348	25.385	0.0369	89.70
20.0	11.589	33.362	25.394	0.0499	89.30
25.0	11.583	33.367	25.399	0.0629	89.30
30.0	11.380	33.370	25.438	0.0759	90.20
35.0	10.667	33.412	25.598	0.0883	94.60
40.0	10.321	33.479	25.711	0.1001	95.30
45.0	9.999	33.491	25.774	0.1114	95.60
50.0	10.023	33.537	25.806	0.1226	95.30
55.0	9.908	33.652	25.915	0.1334	94.00
60.0	10.003	33.737	25.966	0.1439	84.90
65.0	9.883	33.747	25.993	0.1542	75.60
70.0	9.838	33.754	26.006	0.1643	74.50
75.0	9.745	33.778	26.041	0.1744	73.90
80.0	9.587	33.816	26.096	0.1843	79.40
85.0	9.431	33.836	26.138	0.1939	80.50



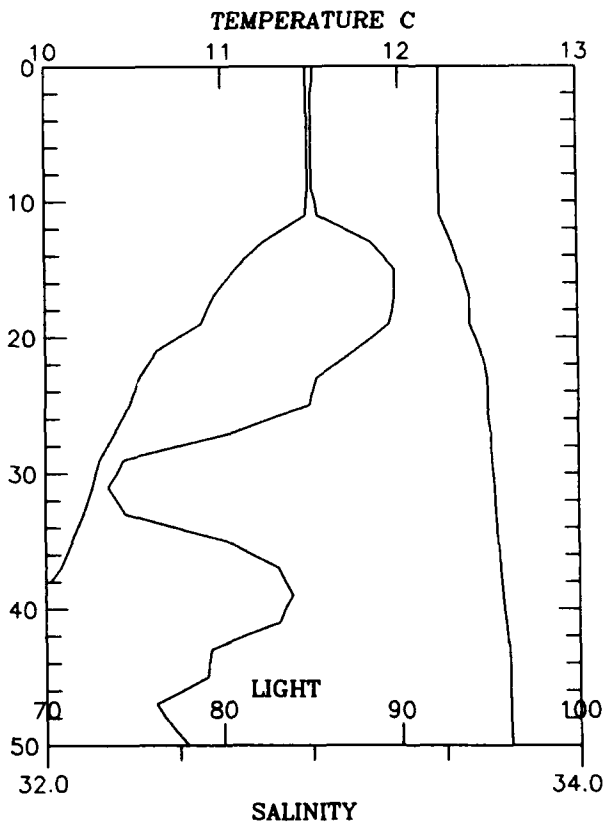
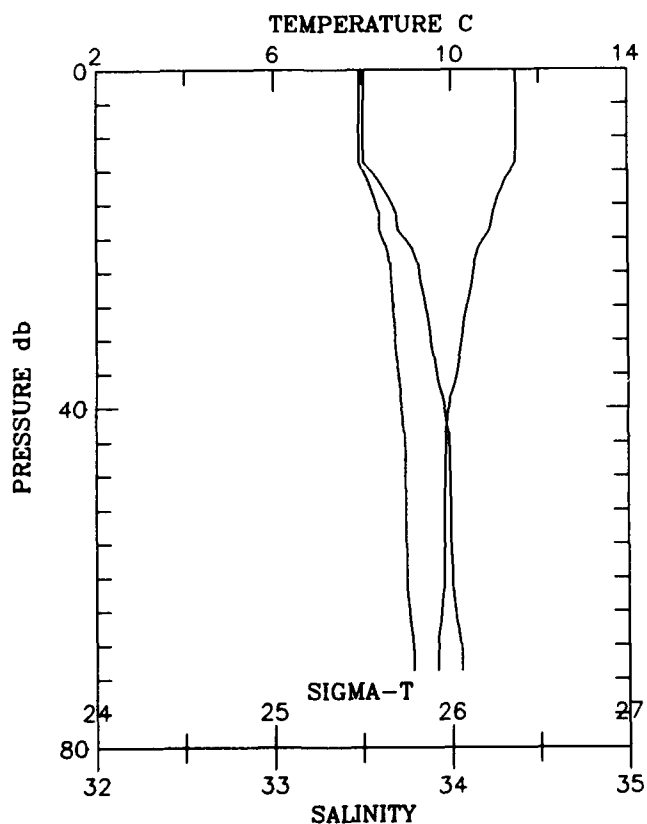
Cruise W8811 Station # 58 Depth m: 60 Time: 19 NOV 1988,0148  
 Position: 38 27.70'N 123 13.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.462	33.491	25.518	0.0000	84.90
5.0	11.473	33.491	25.515	0.0099	85.40
10.0	11.141	33.553	25.624	0.0222	84.30
15.0	10.954	33.597	25.692	0.0339	83.10
20.0	10.925	33.601	25.700	0.0455	83.00
25.0	10.870	33.608	25.715	0.0570	82.50
30.0	10.823	33.614	25.729	0.0685	82.10
35.0	10.666	33.637	25.774	0.0798	80.10
40.0	10.599	33.646	25.793	0.0910	78.00
45.0	10.290	33.680	25.873	0.1020	70.30
50.0	10.038	33.717	25.944	0.1126	58.50
51.0	10.030	33.719	25.947	0.1147	58.00



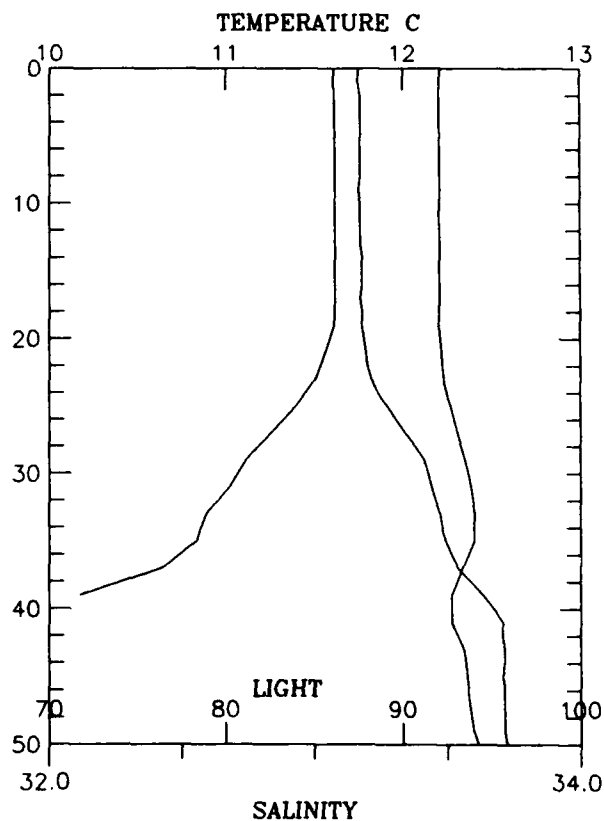
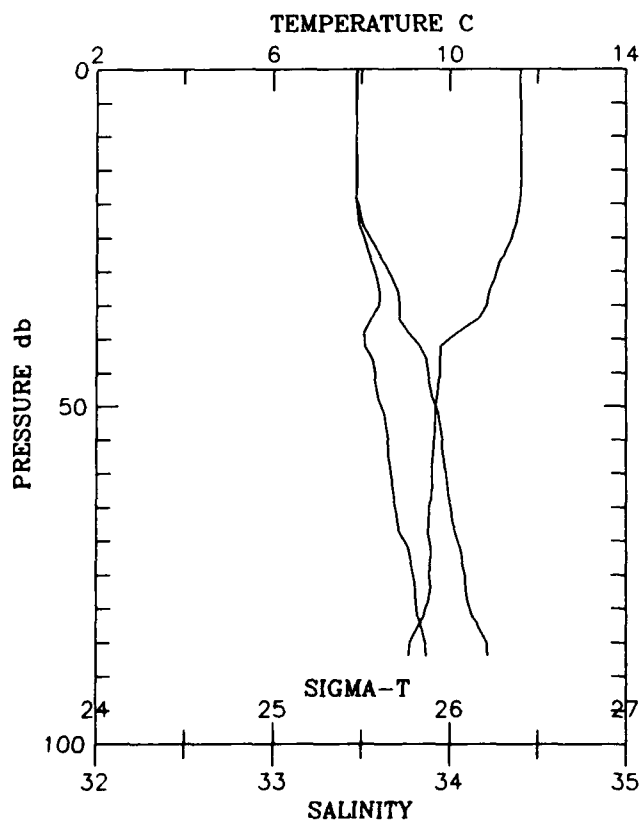
Cruise W8811 Station # 59 Depth m: 78 Time: 19 NOV 1988,0210  
 Position: 38 27.60'N 123 15.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.479	33.486	25.511	0.0000	85.20
5.0	11.488	33.484	25.507	0.0100	85.10
10.0	11.479	33.485	25.509	0.0224	85.30
15.0	11.073	33.566	25.646	0.0346	89.70
20.0	10.755	33.616	25.742	0.0462	88.50
25.0	10.475	33.661	25.826	0.0573	84.90
30.0	10.283	33.680	25.874	0.0682	74.00
35.0	10.147	33.697	25.910	0.0788	80.20
40.0	9.946	33.719	25.961	0.0893	83.50
45.0	9.867	33.738	25.989	0.0996	79.10
50.0	9.849	33.742	25.995	0.1098	78.00
55.0	9.843	33.743	25.997	0.1199	78.10
60.0	9.826	33.748	26.004	0.1301	77.30
65.0	9.757	33.764	26.028	0.1402	76.70
70.0	9.686	33.784	26.055	0.1502	72.10
71.0	9.682	33.785	26.057	0.1522	72.00



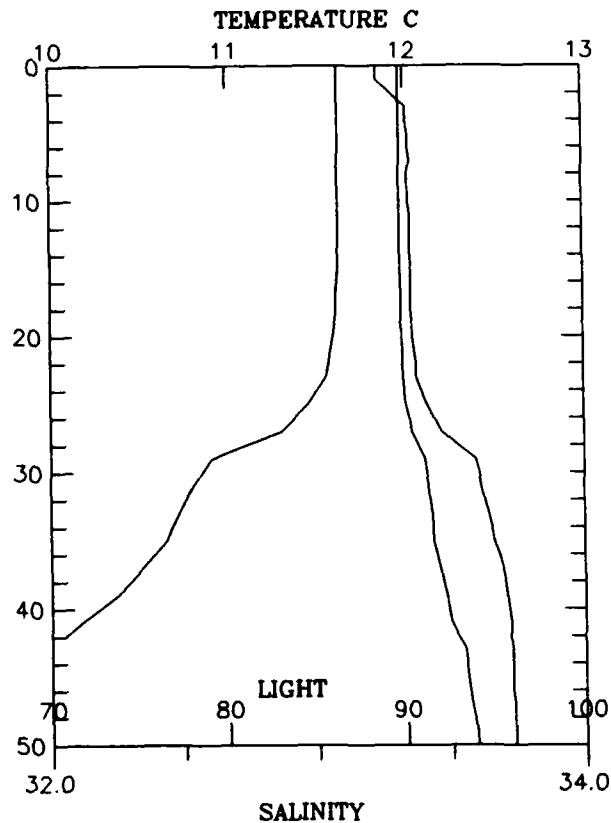
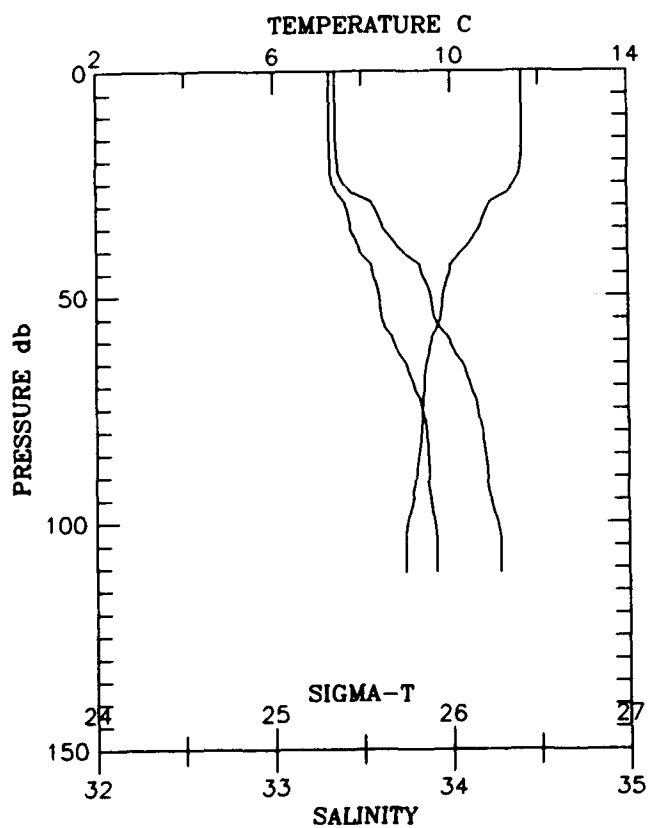
Cruise W8811 Station # 60 Depth m: 96 Time: 19 NOV 1988,0236  
 Position: 38 26.30'N 123 16.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.611	33.470	25.474	0.0000	87.50
5.0	11.617	33.470	25.472	0.0101	87.60
10.0	11.619	33.470	25.472	0.0227	87.60
15.0	11.619	33.470	25.473	0.0354	87.70
20.0	11.587	33.473	25.480	0.0480	87.80
25.0	11.394	33.512	25.546	0.0605	89.10
30.0	11.067	33.577	25.656	0.0725	91.40
35.0	10.834	33.599	25.715	0.0841	92.40
40.0	9.979	33.516	25.797	0.0955	95.10
45.0	9.778	33.574	25.876	0.1064	95.60
50.0	9.689	33.613	25.921	0.1171	95.80
55.0	9.647	33.649	25.956	0.1275	95.80
60.0	9.599	33.666	25.978	0.1379	95.80
65.0	9.540	33.693	26.008	0.1481	95.90
70.0	9.538	33.742	26.047	0.1582	94.90
75.0	9.546	33.795	26.087	0.1680	91.40
80.0	9.460	33.811	26.114	0.1777	90.70
85.0	9.102	33.862	26.211	0.1872	84.70
87.0	9.078	33.865	26.217	0.1909	84.50



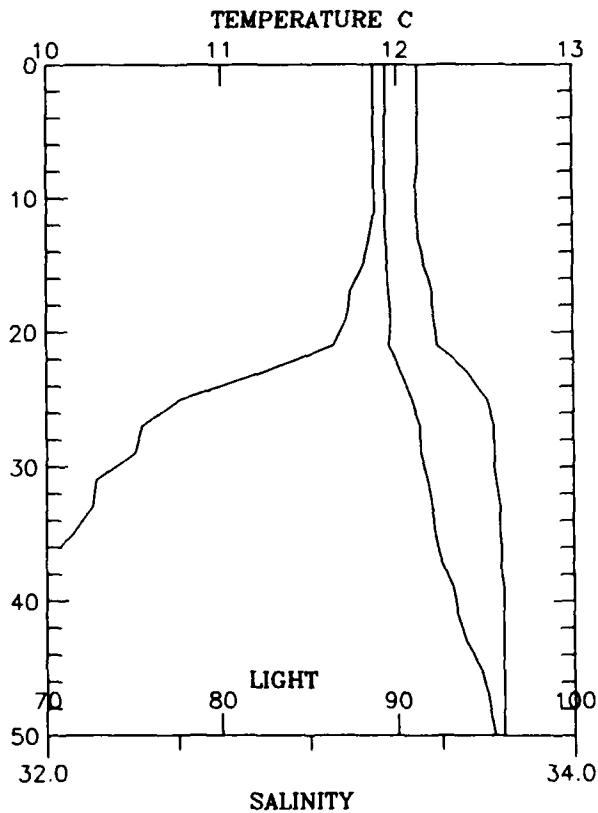
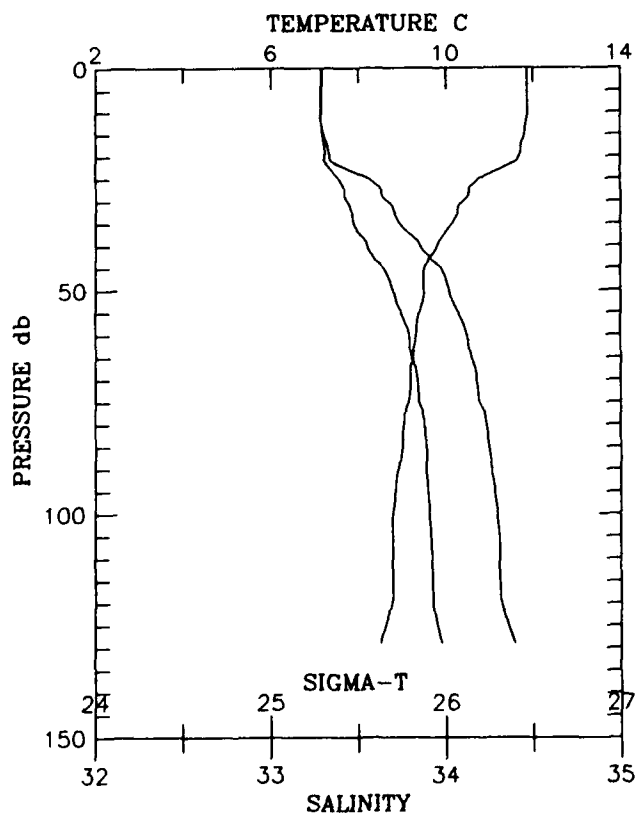
Cruise W8811 Station # 61 Depth m: 119 Time: 19 NOV 1988,0315  
 Position: 38 23.40'N 123 20.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.628	33.316	25.351	0.0000	88.50
10.0	11.627	33.315	25.351	0.0238	90.20
20.0	11.594	33.320	25.360	0.0502	90.40
30.0	10.853	33.410	25.564	0.0759	94.10
40.0	10.267	33.489	25.727	0.0997	95.70
50.0	9.818	33.593	25.884	0.1217	96.00
60.0	9.550	33.675	25.993	0.1428	96.00
70.0	9.391	33.791	26.109	0.1626	95.70
80.0	9.320	33.859	26.174	0.1816	95.10
90.0	9.201	33.873	26.204	0.2002	95.00
100.0	9.006	33.904	26.259	0.2184	93.00
110.0	8.958	33.914	26.274	0.2363	90.50
111.0	8.958	33.913	26.274	0.2380	90.50



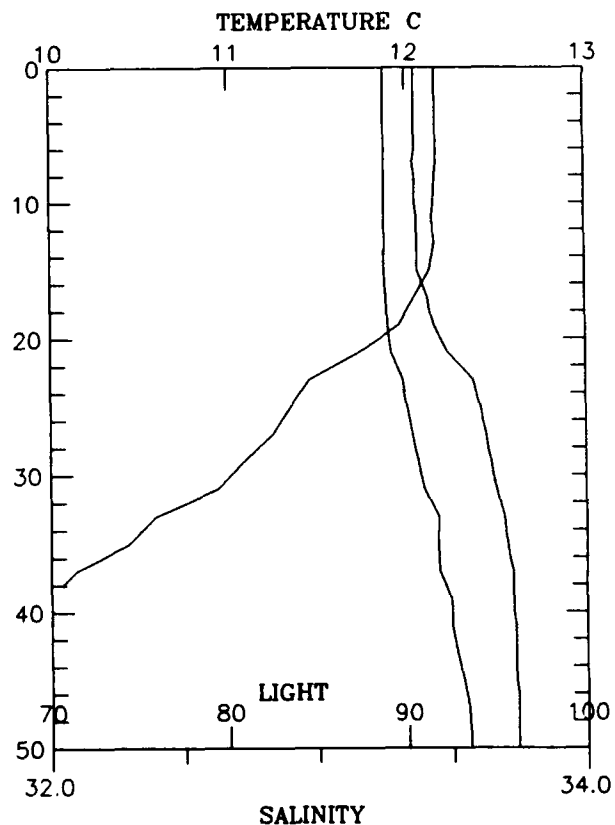
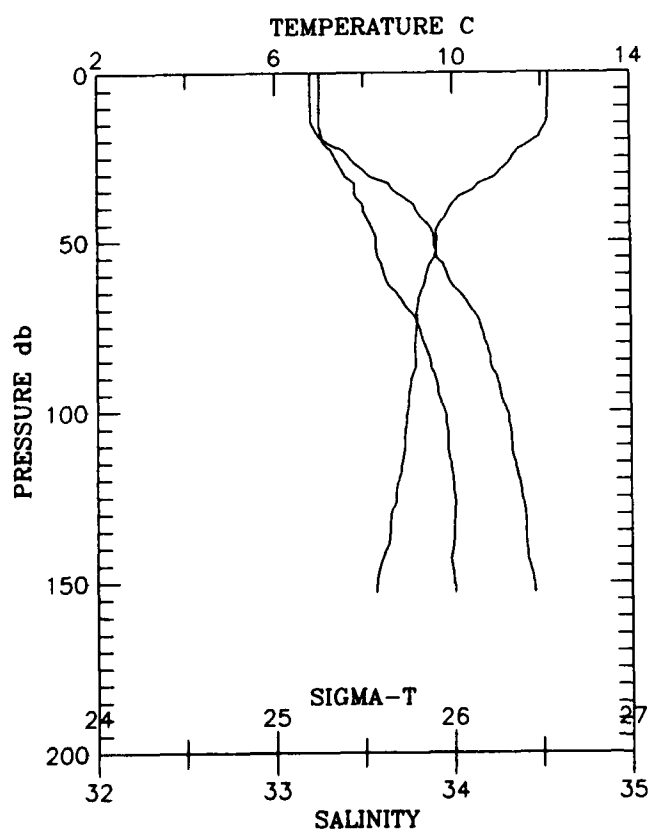
Cruise W8811 Station # 62 Depth m: 138 Time: 19 NOV 1988,0349  
 Position: 38 21.20'N 123 23.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.868	33.291	25.287	0.0000	91.20
10.0	11.873	33.288	25.284	0.0148	91.10
20.0	11.679	33.308	25.335	0.0416	92.20
30.0	10.394	33.434	25.662	0.0664	95.50
40.0	9.802	33.551	25.854	0.0891	96.00
50.0	9.499	33.698	26.019	0.1099	96.00
60.0	9.323	33.791	26.120	0.1296	96.10
70.0	9.191	33.837	26.177	0.1485	95.90
80.0	9.045	33.879	26.233	0.1670	94.90
90.0	8.915	33.889	26.262	0.1850	94.50
100.0	8.796	33.906	26.294	0.2028	94.20
110.0	8.783	33.920	26.307	0.2203	92.10
120.0	8.757	33.926	26.316	0.2378	91.30
129.0	8.509	33.976	26.393	0.2532	91.00



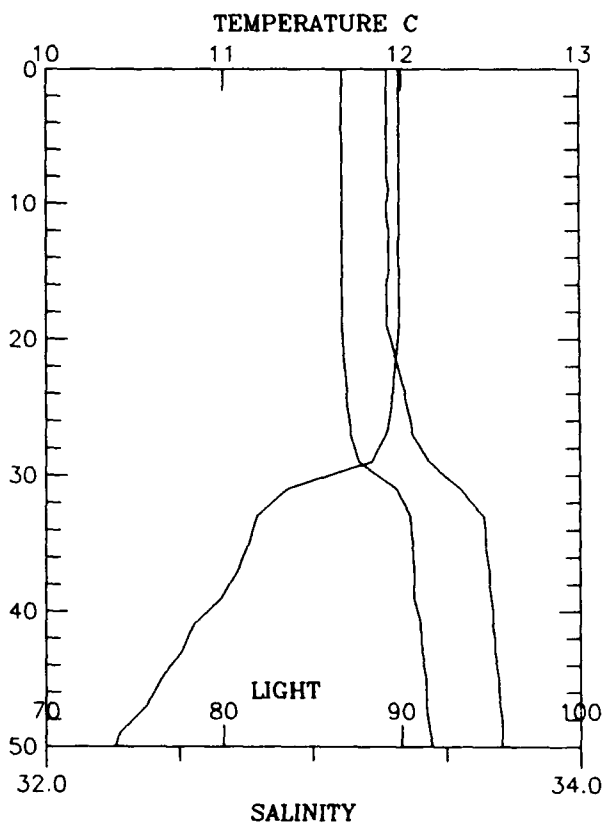
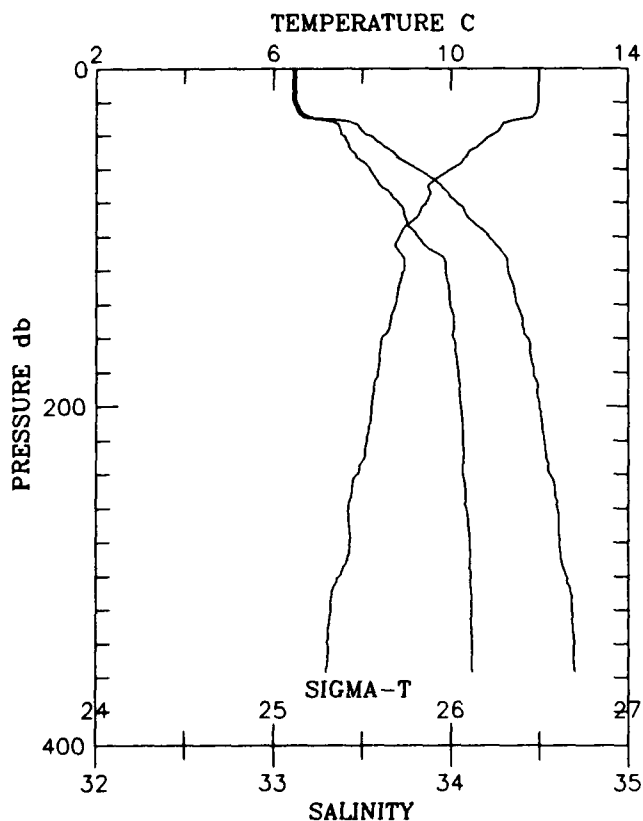
Cruise W8811 Station # 63 Depth m: 163 Time: 19 NOV 1988,0425  
 Position: 38 20.10'N 123 25.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.166	33.252	25.201	0.0000	90.5
10.0	12.154	33.253	25.204	0.0195	90.5
20.0	11.845	33.268	25.274	0.0472	91.9
30.0	11.013	33.386	25.517	0.0731	94.8
40.0	9.943	33.495	25.787	0.0965	95.9
50.0	9.622	33.563	25.893	0.1183	96.1
60.0	9.398	33.614	25.970	0.1394	96.1
70.0	9.191	33.748	26.108	0.1594	96.1
80.0	9.138	33.837	26.186	0.1783	96.1
90.0	9.065	33.900	26.247	0.1967	96.1
100.0	8.962	33.951	26.303	0.2145	96.1
110.0	8.898	33.969	26.327	0.2319	96.1
120.0	8.764	33.998	26.371	0.2490	96.1
130.0	8.587	34.004	26.403	0.2658	96.2
140.0	8.482	33.995	26.412	0.2824	96.1
150.0	8.274	34.003	26.451	0.2988	94.4
153.0	8.264	34.010	26.457	0.3037	94.0



Cruise W8811 Station # 64 Depth m: 365 Time: 19 NOV 1988,0540  
 Position: 38 15.70'N 123 30.60'W Depth Deck Offset: 0.00

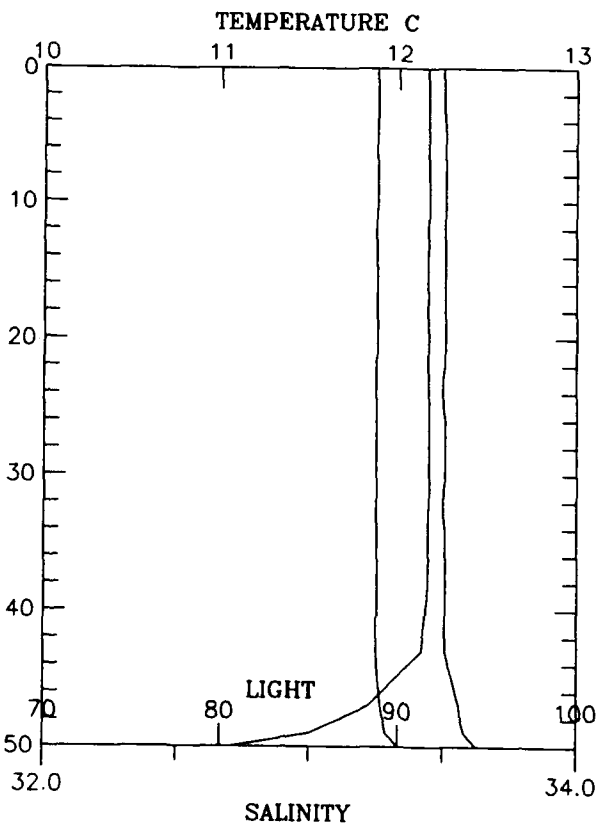
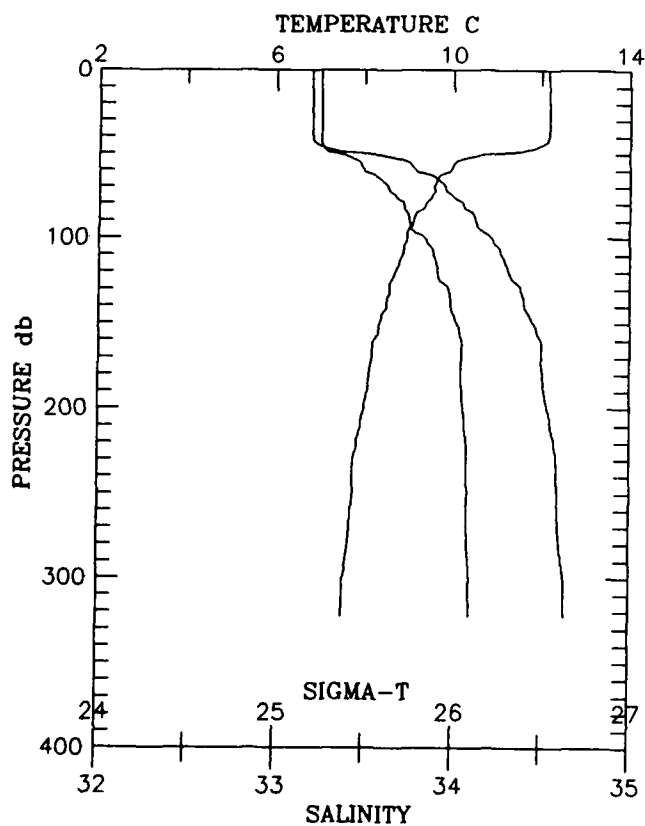
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.987	33.111	25.125	0.0000	89.20
10.0	11.987	33.111	25.125	0.0257	89.20
20.0	11.982	33.114	25.129	0.0543	89.40
30.0	11.594	33.243	25.300	0.0825	92.40
40.0	10.908	33.391	25.540	0.1079	95.10
50.0	10.392	33.447	25.673	0.1319	95.60
60.0	10.013	33.542	25.812	0.1548	96.00
80.0	9.446	33.705	26.033	0.1968	95.50
100.0	8.837	33.814	26.216	0.2353	96.20
150.0	8.635	34.017	26.406	0.3218	96.30
200.0	8.207	34.055	26.501	0.4027	96.20
250.0	7.759	34.081	26.588	0.4802	96.20
300.0	7.470	34.109	26.651	0.5545	96.00
357.0	7.180	34.123	26.703	0.6356	94.40





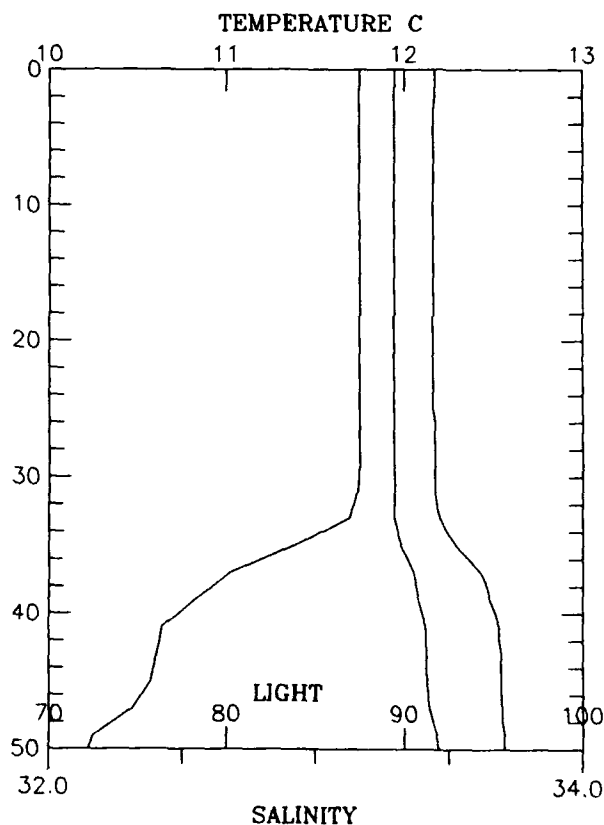
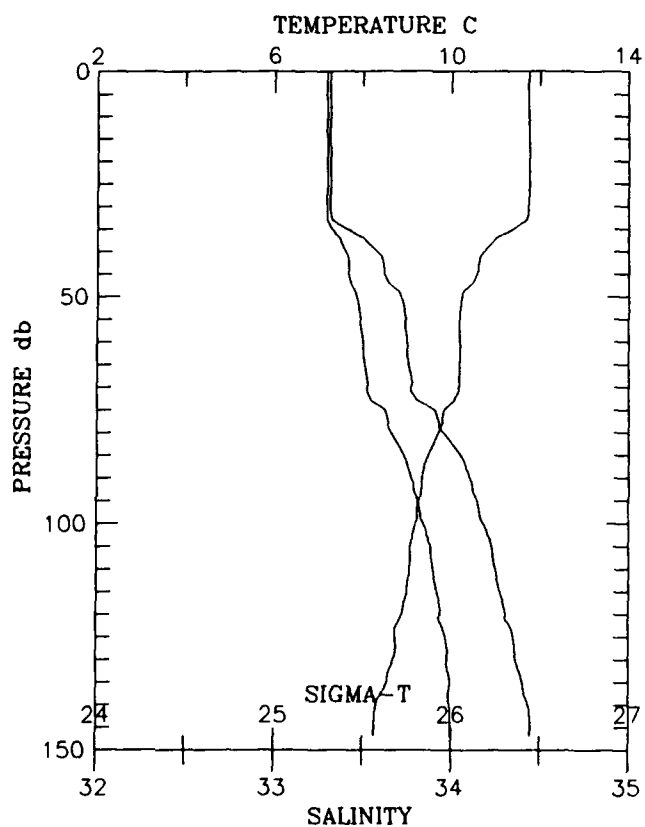
Cruise W8811 Station # 65 Depth m: 343 Time: 19 NOV 1988,0713  
 Position: 38 23.90'N 123 34.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.164	33.252	25.202	0.0000	92.5
10.0	12.170	33.252	25.200	0.0195	92.6
20.0	12.165	33.252	25.201	0.0474	92.6
30.0	12.170	33.251	25.200	0.0753	92.6
40.0	12.153	33.252	25.203	0.1032	92.6
50.0	11.059	33.335	25.468	0.1305	94.4
60.0	9.934	33.492	25.786	0.1537	95.8
80.0	9.382	33.718	26.054	0.1955	96.0
100.0	8.968	33.842	26.217	0.2339	96.1
150.0	8.345	34.023	26.455	0.3199	95.6
200.0	8.000	34.059	26.535	0.3986	95.9
250.0	7.741	34.084	26.593	0.4744	95.5
300.0	7.544	34.098	26.632	0.5489	95.5
323.0	7.509	34.101	26.639	0.5827	95.1



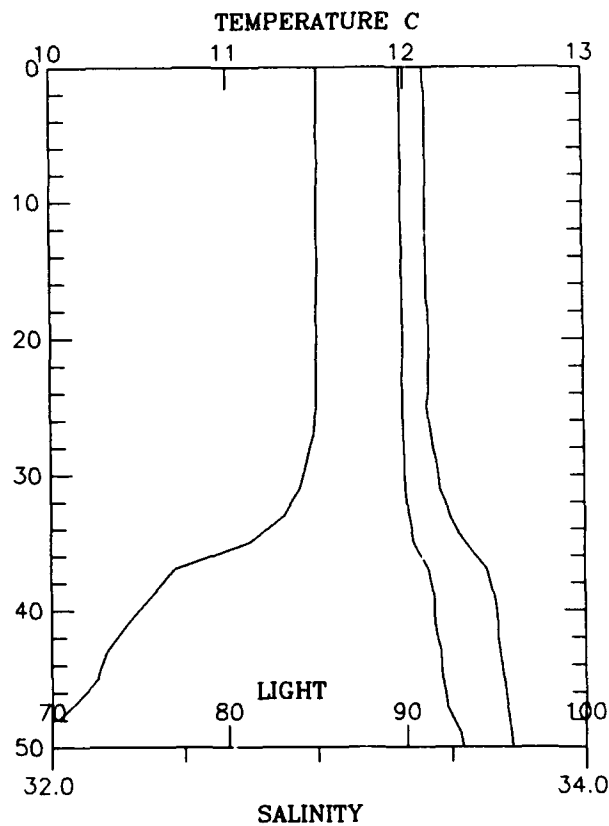
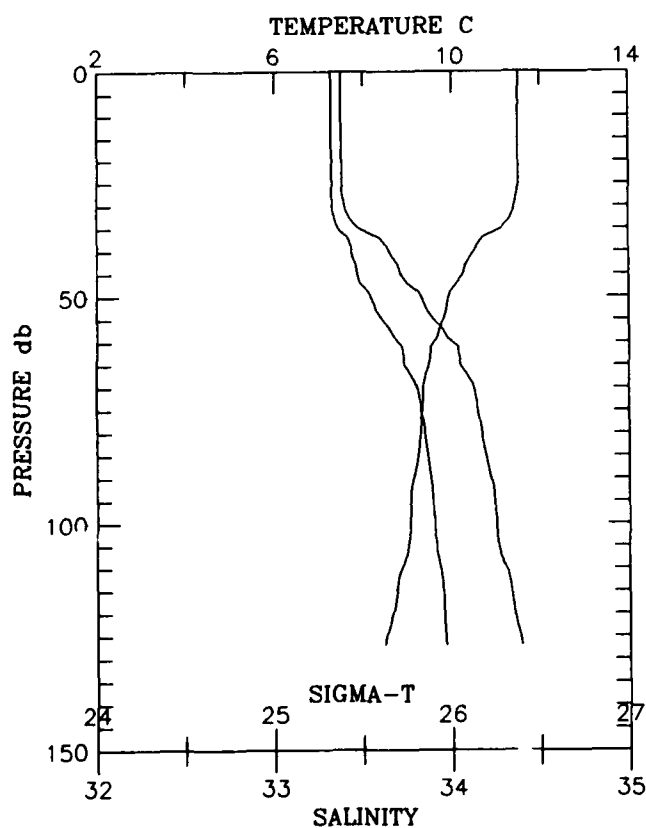
Cruise W8811 Station # 66 Depth m: 154 Time: 19 NOV 1988,0837  
 Position: 38 27.20'N 123 30.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.747	33.295	25.312	0.0000	91.70
10.0	11.745	33.294	25.312	0.0241	91.60
20.0	11.749	33.294	25.312	0.0509	91.60
30.0	11.743	33.295	25.313	0.0777	91.70
40.0	10.731	33.399	25.577	0.1036	95.10
50.0	10.225	33.460	25.712	0.1274	95.60
60.0	10.187	33.498	25.748	0.1502	95.70
70.0	10.160	33.525	25.774	0.1729	95.80
80.0	9.707	33.660	25.955	0.1945	96.00
90.0	9.337	33.774	26.104	0.2145	96.00
100.0	9.196	33.841	26.179	0.2336	96.00
110.0	9.050	33.897	26.247	0.2519	96.00
120.0	8.882	33.937	26.305	0.2697	95.80
130.0	8.704	33.978	26.365	0.2869	95.90
140.0	8.314	33.990	26.434	0.3036	94.20
147.0	8.256	33.994	26.446	0.3150	92.20



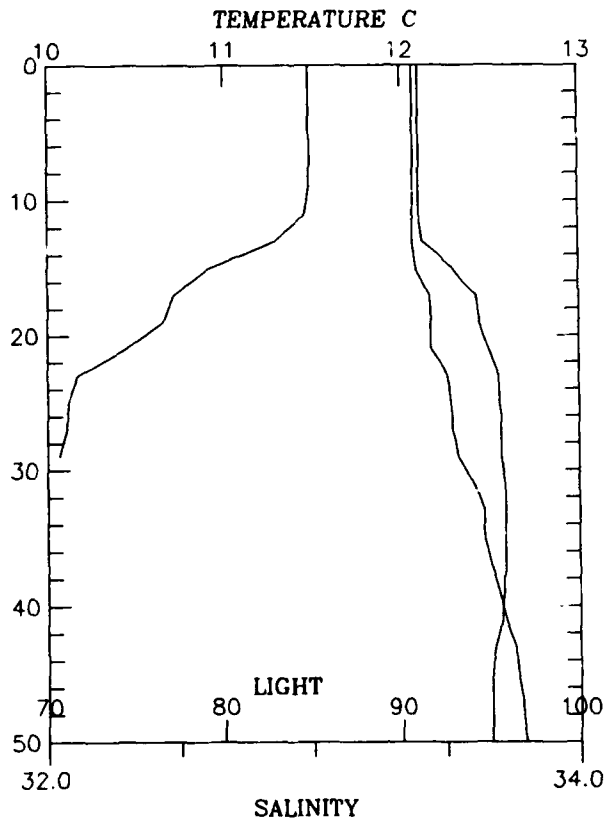
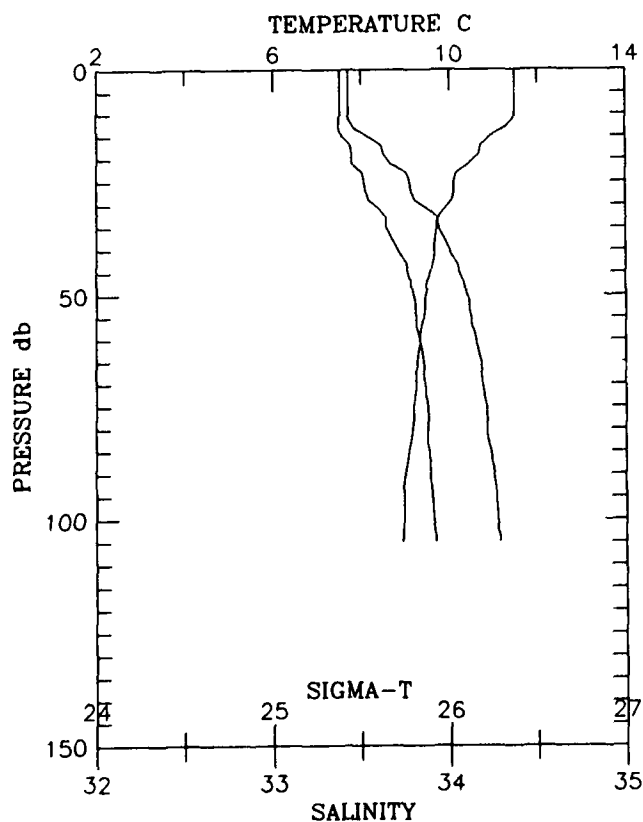
Cruise W8811 Station # 67 Depth m: 135 Time: 19 NOV 1988,0928  
 Position: 38 29.20'N 123 27.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.513	33.319	25.375	0.0000	91.10
10.0	11.509	33.321	25.377	0.0236	91.20
20.0	11.500	33.323	25.380	0.0497	91.30
30.0	11.422	33.328	25.398	0.0759	91.80
40.0	10.495	33.435	25.646	0.1009	95.00
50.0	9.931	33.542	25.825	0.1238	95.90
60.0	9.582	33.695	26.003	0.1451	96.00
70.0	9.359	33.804	26.124	0.1648	95.60
80.0	9.290	33.845	26.168	0.1838	95.20
90.0	9.131	33.881	26.221	0.2024	94.10
100.0	9.049	33.899	26.248	0.2205	91.30
110.0	8.871	33.935	26.305	0.2384	93.20
120.0	8.659	33.953	26.352	0.2557	92.40
127.0	8.474	33.965	26.390	0.2675	90.90



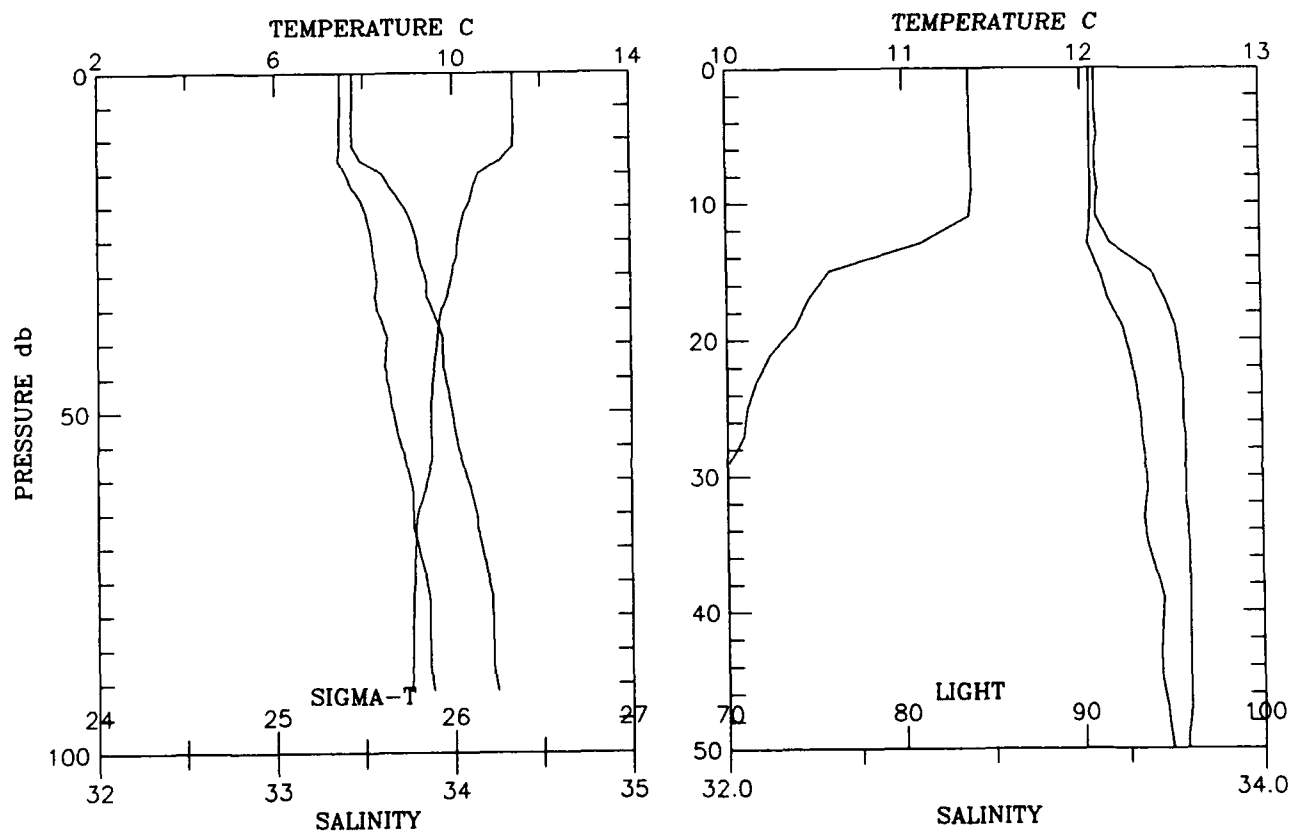
Cruise W8811 Station # 68 Depth m: 113 Time: 19 NOV 1988,1023  
 Position: 38 30.80'N 123 25.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.484	33.380	25.427	0.0000	91.00
10.0	11.471	33.378	25.428	0.0231	91.00
20.0	10.547	33.445	25.645	0.0478	94.60
30.0	9.976	33.574	25.843	0.0704	95.70
40.0	9.663	33.708	26.000	0.0913	95.60
50.0	9.459	33.795	26.101	0.1110	95.00
60.0	9.335	33.831	26.150	0.1302	95.10
70.0	9.240	33.860	26.188	0.1489	95.00
80.0	9.162	33.876	26.212	0.1674	94.40
90.0	8.997	33.892	26.251	0.1856	89.70
100.0	8.957	33.908	26.270	0.2035	87.80
105.0	8.935	33.922	26.285	0.2124	88.00



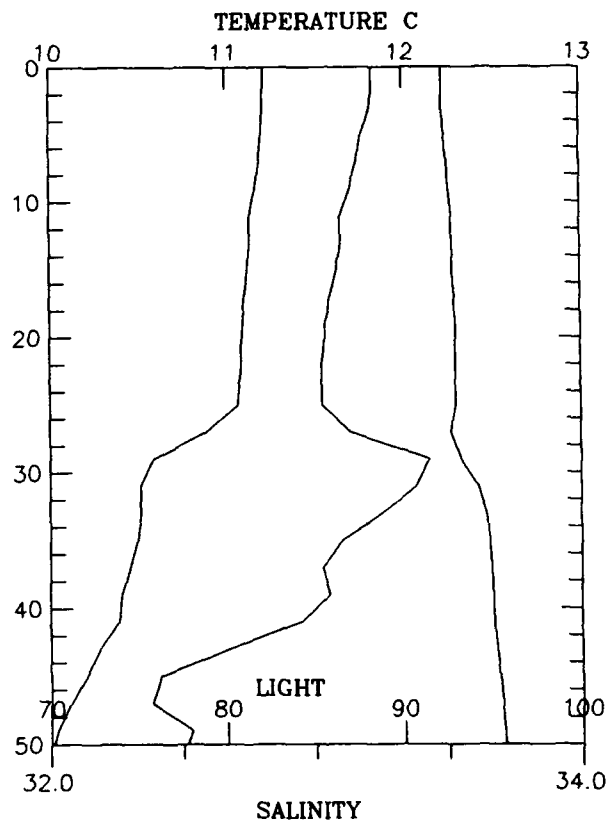
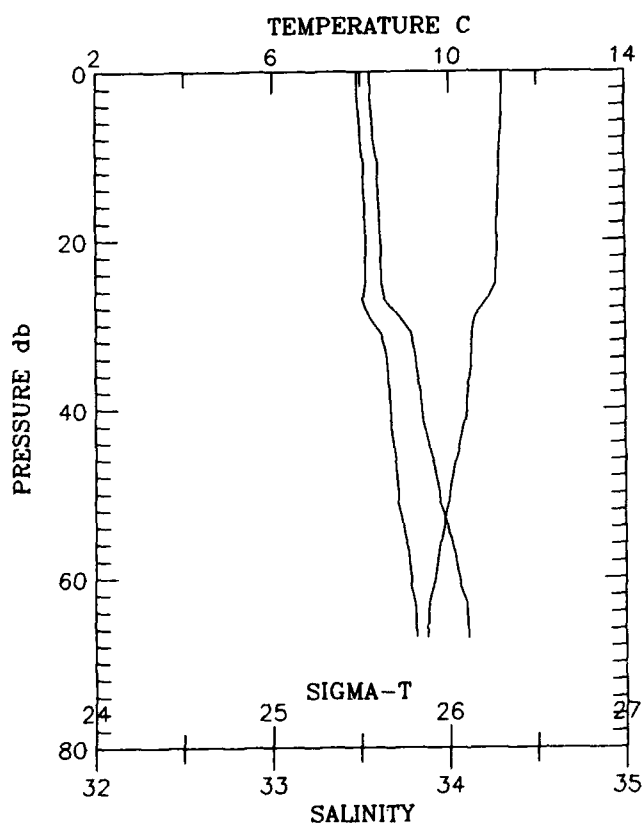
Cruise W8811 Station # 69 Depth m: 100 Time: 19 NOV 1988,1105  
 Position: 38 32.10'N 123 23.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.375	33.367	25.437	0.0000	90.8
5.0	11.381	33.367	25.436	0.0051	90.9
10.0	11.376	33.366	25.436	0.0179	90.8
15.0	10.578	33.398	25.603	0.0305	93.9
20.0	10.316	33.495	25.724	0.0422	95.3
25.0	10.110	33.545	25.798	0.0535	95.6
30.0	9.970	33.567	25.838	0.0645	95.7
35.0	9.734	33.570	25.880	0.0754	95.9
40.0	9.622	33.623	25.940	0.0859	95.9
45.0	9.524	33.620	25.954	0.0963	95.9
50.0	9.486	33.659	25.990	0.1066	95.7
55.0	9.501	33.703	26.022	0.1168	95.6
60.0	9.401	33.755	26.079	0.1267	95.7
65.0	9.179	33.771	26.128	0.1364	95.8
70.0	9.138	33.801	26.157	0.1459	94.6
75.0	9.102	33.841	26.195	0.1552	88.7
80.0	9.068	33.859	26.215	0.1644	84.0
85.0	9.058	33.864	26.219	0.1736	83.6
90.0	9.028	33.875	26.233	0.1827	82.6
91.0	9.013	33.881	26.240	0.1845	82.0



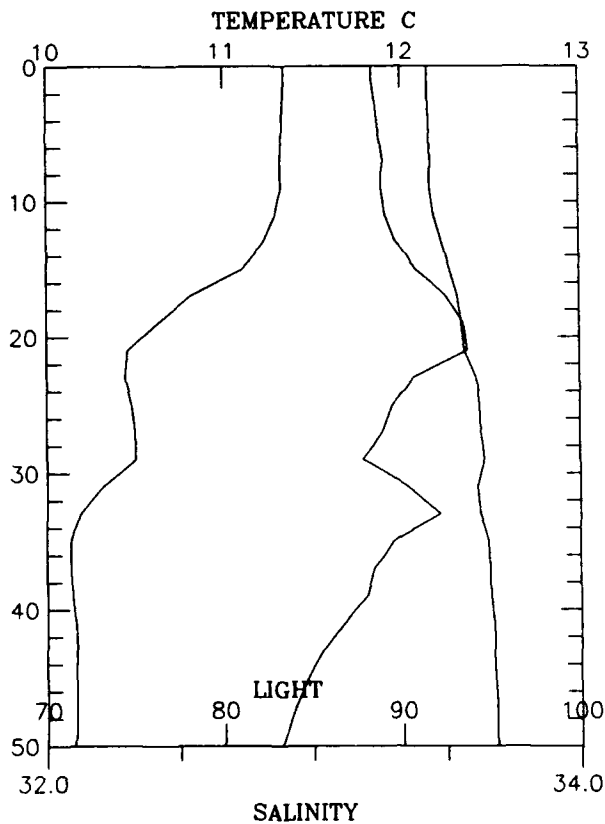
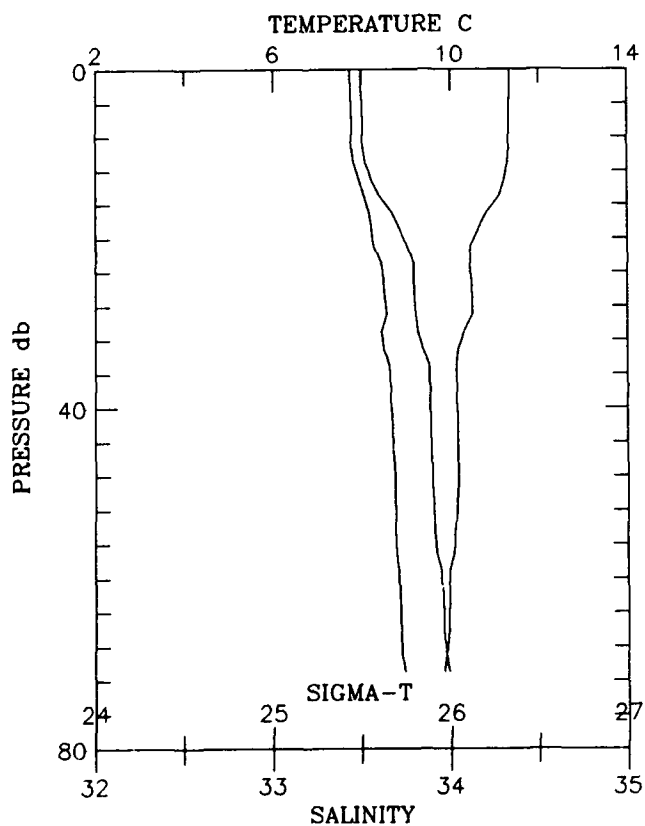
Cruise W8811 Station # 70 Depth m: 77 Time: 19 NOV 1988, 1144  
 Position: 38 33.60'N 123 21.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.215	33.483	25.556	0.0000	88.30
5.0	11.206	33.492	25.565	0.0098	87.70
10.0	11.153	33.511	25.589	0.0219	86.80
15.0	11.123	33.520	25.602	0.0340	86.30
20.0	11.091	33.529	25.614	0.0459	85.60
25.0	11.063	33.528	25.618	0.0579	85.40
30.0	10.547	33.578	25.749	0.0696	91.10
35.0	10.494	33.654	25.817	0.0808	86.50
40.0	10.395	33.668	25.845	0.0917	85.00
45.0	10.203	33.689	25.894	0.1025	76.20
50.0	10.014	33.709	25.942	0.1130	77.70
55.0	9.836	33.748	26.002	0.1233	73.80
60.0	9.674	33.781	26.055	0.1334	71.70
65.0	9.520	33.810	26.103	0.1431	69.80
67.0	9.501	33.812	26.108	0.1470	69.50



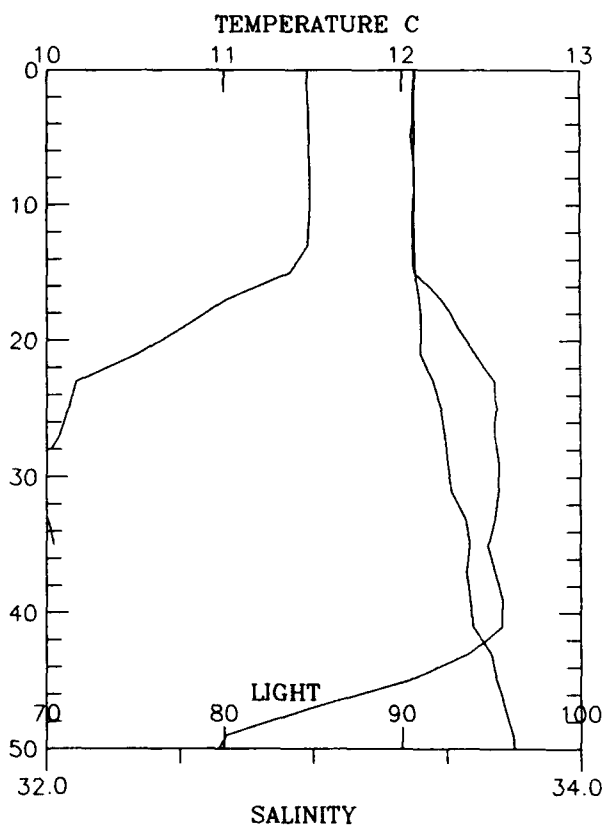
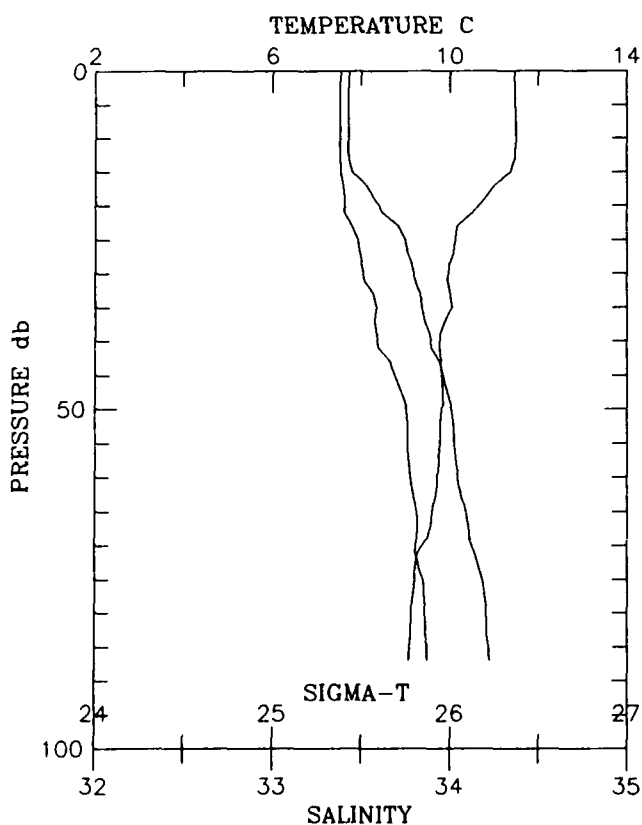
Cruise W8811 Station # 71 Depth m: 78 Time: 19 NOV 1988,1250  
 Position: 38 39.90'N 123 27.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.344	33.434	25.495	0.0000	88.40
5.0	11.332	33.442	25.503	0.0100	88.80
10.0	11.309	33.449	25.513	0.0225	89.00
15.0	11.109	33.515	25.600	0.0347	90.80
20.0	10.542	33.562	25.737	0.0464	93.60
25.0	10.480	33.623	25.796	0.0576	89.50
30.0	10.406	33.627	25.812	0.0687	89.10
35.0	10.132	33.656	25.881	0.0796	89.50
40.0	10.149	33.667	25.886	0.0903	87.30
45.0	10.164	33.679	25.893	0.1010	84.70
50.0	10.153	33.685	25.900	0.1117	83.20
55.0	10.095	33.692	25.915	0.1223	82.30
60.0	9.974	33.708	25.948	0.1328	78.30
65.0	9.947	33.715	25.958	0.1432	74.80
70.0	9.879	33.734	25.984	0.1535	71.90
71.0	9.853	33.742	25.994	0.1556	71.30



Cruise W8811 Station # 72 Depth m: 96 Time: 19 NOV 1988,1326  
 Position: 38 38.40'N 123 29.50'W Depth Deck Offset: 0.00

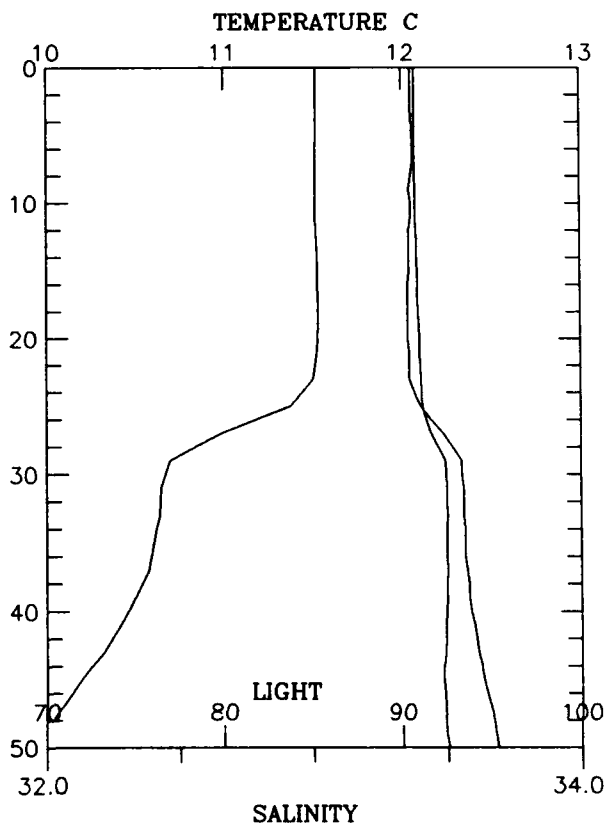
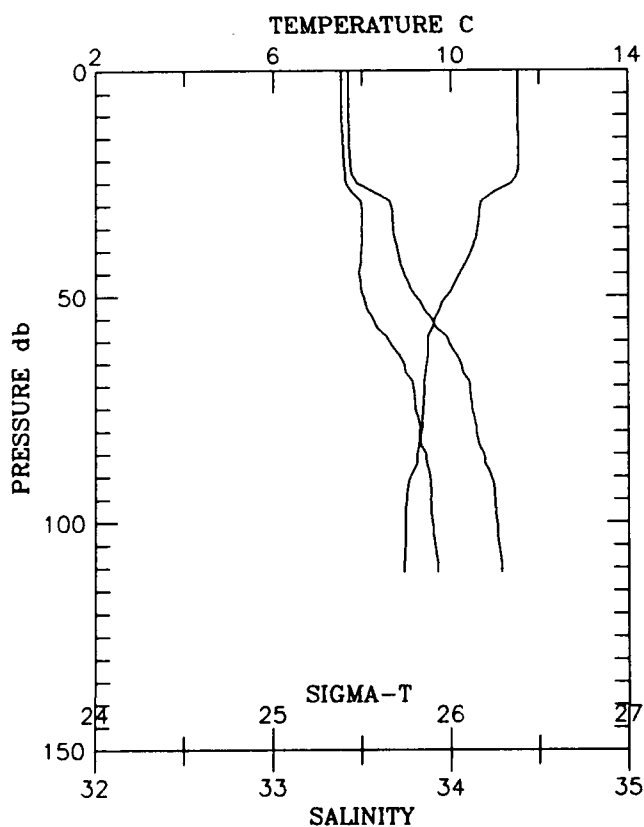
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.466	33.381	25.431	0.0000	90.70
10.0	11.481	33.379	25.427	0.0231	90.60
20.0	10.644	33.404	25.596	0.0483	93.60
30.0	9.964	33.510	25.795	0.0712	95.40
40.0	9.771	33.592	25.891	0.0930	95.60
50.0	9.819	33.753	26.009	0.1137	79.70
60.0	9.721	33.778	26.045	0.1338	80.00
70.0	9.378	33.809	26.125	0.1534	83.80
80.0	9.129	33.861	26.206	0.1721	81.40
87.0	9.068	33.871	26.224	0.1849	78.70





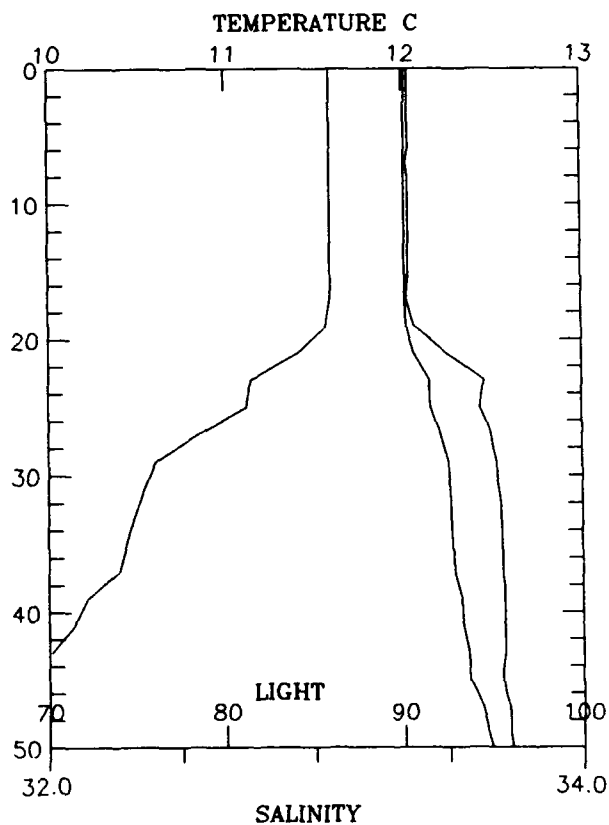
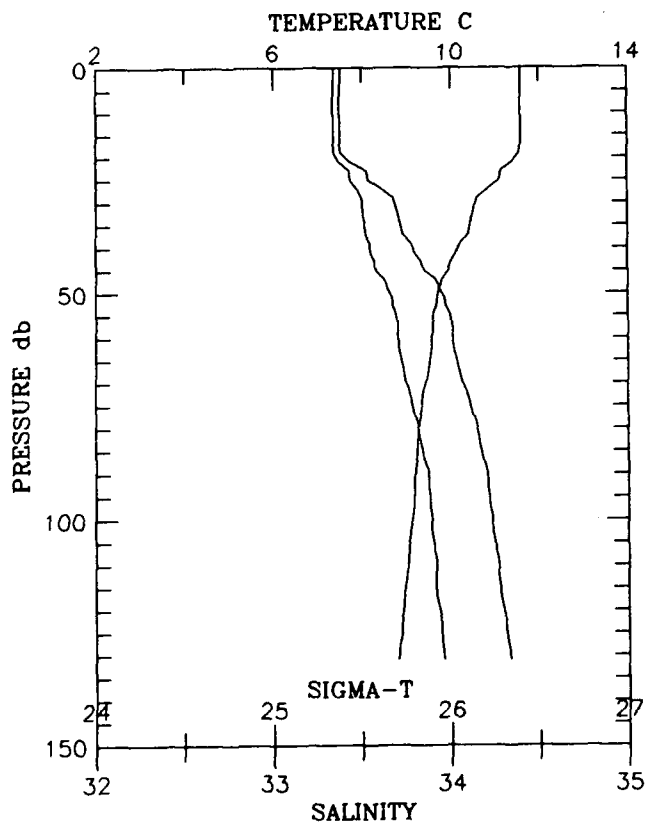
Cruise W8811 Station # 73 Depth m: 119 Time: 19 NOV 1988,1409  
 Position: 38 36.60'N 123 31.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.518	33.382	25.423	0.0000	90.5
10.0	11.515	33.383	25.424	0.0180	90.5
20.0	11.526	33.397	25.433	0.0437	90.3
30.0	10.668	33.496	25.663	0.0686	93.3
40.0	10.455	33.495	25.700	0.0920	93.8
50.0	9.899	33.505	25.802	0.1148	95.3
60.0	9.480	33.652	25.986	0.1362	95.9
70.0	9.399	33.788	26.105	0.1560	95.5
80.0	9.330	33.824	26.145	0.1752	95.4
90.0	9.097	33.882	26.227	0.1939	92.3
100.0	8.972	33.895	26.258	0.2120	84.3
110.0	8.948	33.926	26.286	0.2298	86.8
111.0	8.947	33.927	26.286	0.2316	86.5



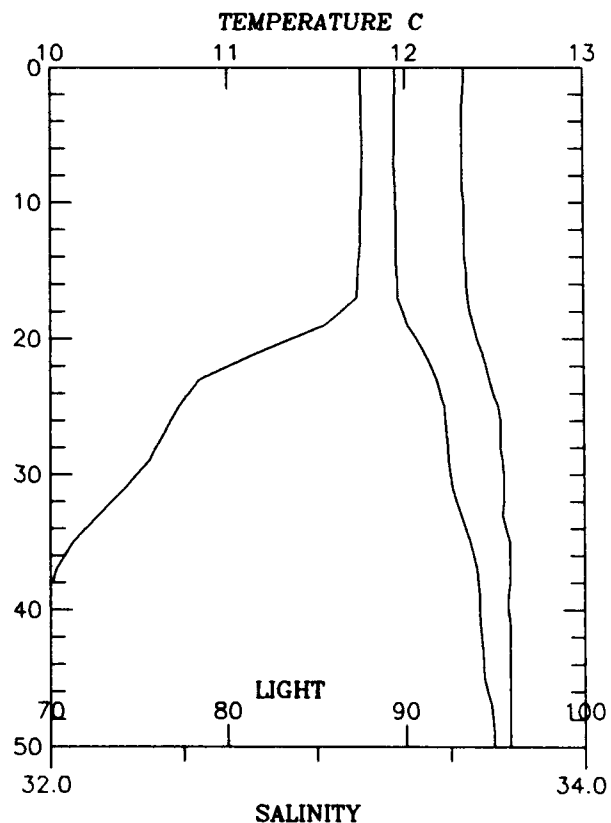
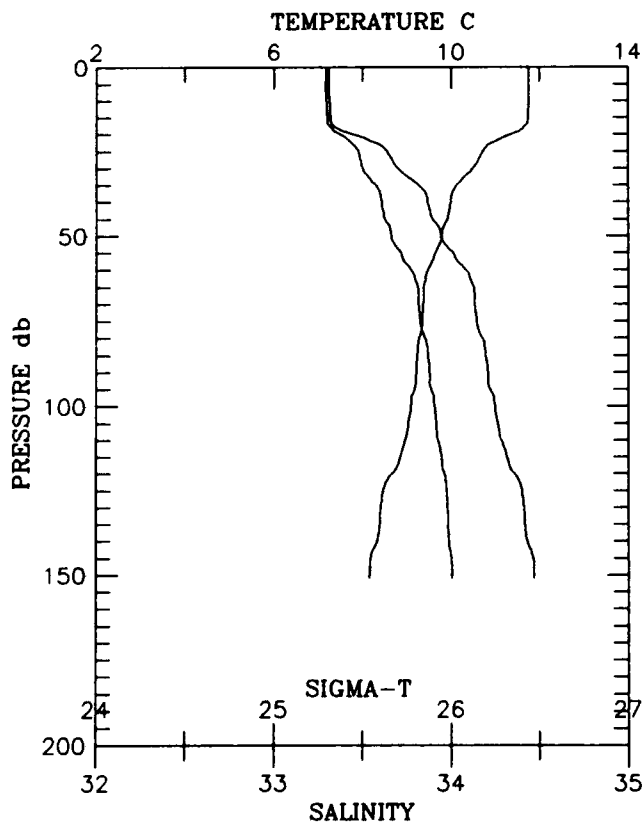
Cruise W8811 Station # 74 Depth m: 140 Time: 19 NOV 1988,1446  
 Position: 38 35.20'N 123 33.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.591	33.342	25.378	0.0000	90.30
10.0	11.591	33.341	25.377	0.0236	90.30
20.0	11.488	33.358	25.409	0.0497	91.50
30.0	10.569	33.501	25.685	0.0742	95.20
40.0	10.177	33.548	25.789	0.0971	95.60
50.0	9.721	33.657	25.950	0.1187	96.00
60.0	9.573	33.703	26.011	0.1392	96.00
70.0	9.432	33.750	26.070	0.1592	95.90
80.0	9.267	33.815	26.148	0.1785	95.80
90.0	9.189	33.869	26.203	0.1973	95.60
100.0	9.120	33.892	26.231	0.2156	95.50
110.0	9.023	33.916	26.266	0.2337	94.80
120.0	8.910	33.934	26.298	0.2515	88.80
130.0	8.807	33.954	26.330	0.2690	90.10
131.0	8.798	33.956	26.333	0.2707	90.00



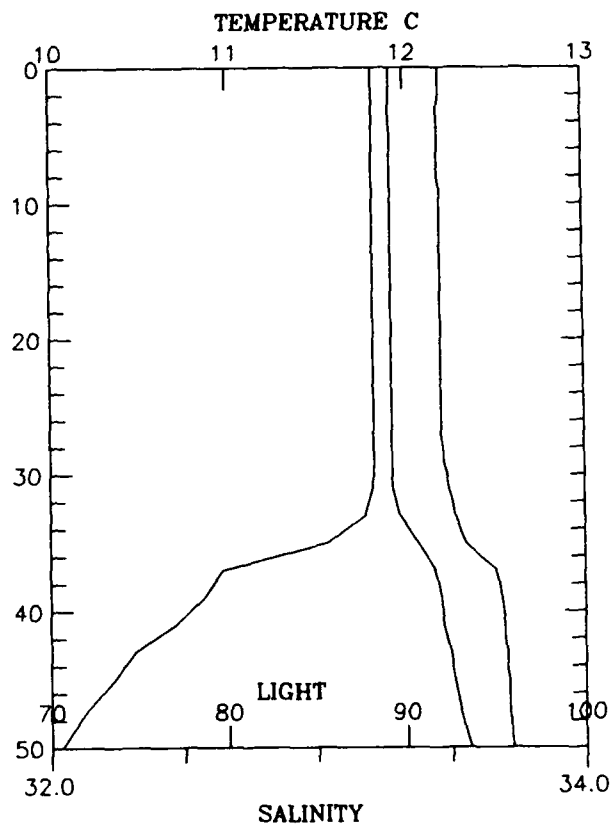
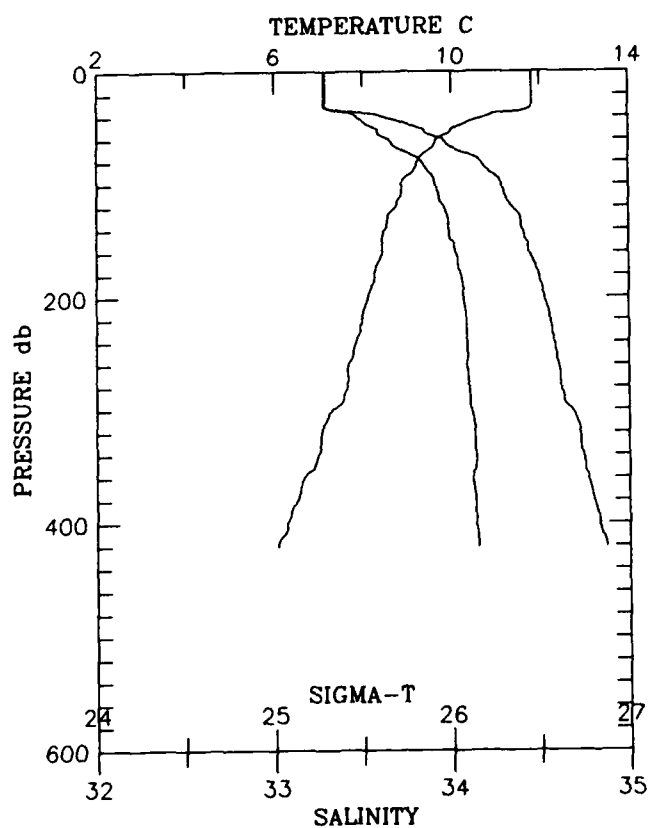
Cruise W8811 Station # 75 Depth m: 163 Time: 19 NOV 1988,1531  
 Position: 38 33.00'N 123 36.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.753	33.295	25.311	0.0000	93.30
10.0	11.750	33.297	25.314	0.0073	93.30
20.0	11.361	33.373	25.444	0.0338	94.00
30.0	10.487	33.501	25.699	0.0578	95.50
40.0	9.986	33.608	25.868	0.0800	95.70
50.0	9.792	33.661	25.942	0.1012	95.80
60.0	9.476	33.774	26.082	0.1215	95.20
70.0	9.371	33.818	26.133	0.1408	95.10
80.0	9.281	33.852	26.175	0.1597	95.10
90.0	9.212	33.879	26.207	0.1783	94.70
100.0	9.094	33.907	26.248	0.1966	93.30
110.0	8.965	33.926	26.283	0.2145	93.00
120.0	8.667	33.961	26.357	0.2319	92.30
130.0	8.411	33.980	26.412	0.2486	92.80
140.0	8.326	33.987	26.429	0.2651	92.50
150.0	8.163	34.005	26.469	0.2813	93.20
151.0	8.162	34.005	26.469	0.2829	93.30



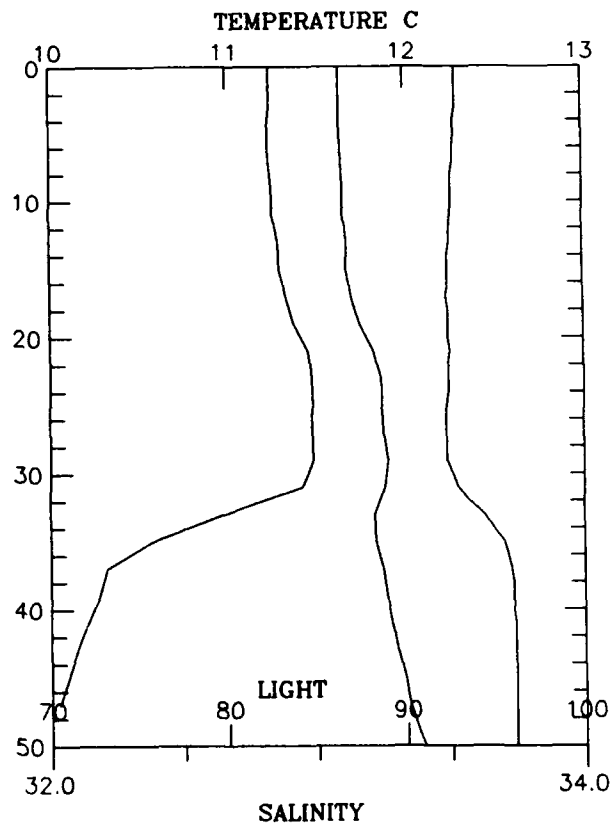
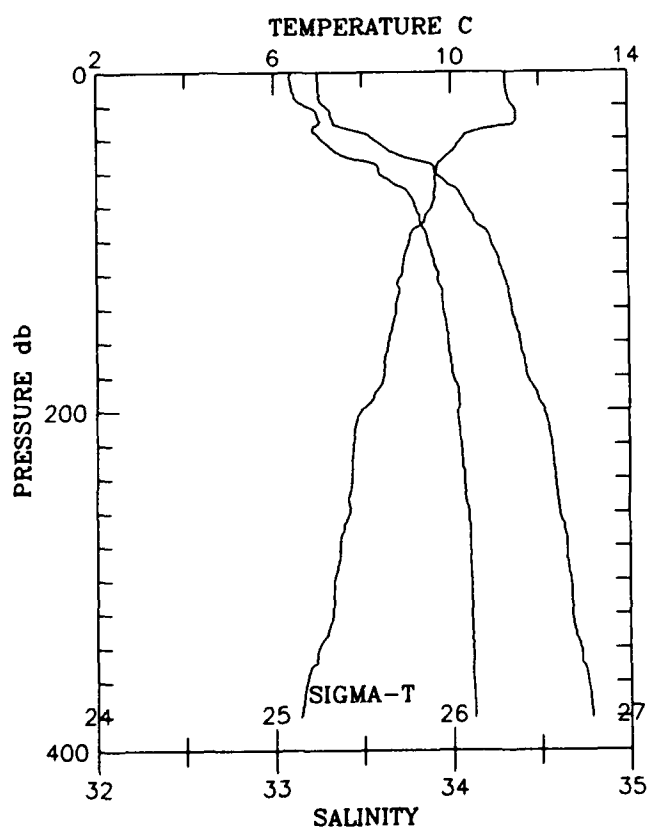
Cruise W8811 Station # 76 Depth m: 435 Time: 19 NOV 1988,1621  
 Position: 38 31.10'N 123 40.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.822	33.281	25.288	0.0000	92.00
10.0	11.820	33.281	25.288	0.0243	92.00
20.0	11.821	33.281	25.288	0.0513	92.00
30.0	11.817	33.283	25.290	0.0784	92.30
40.0	10.781	33.466	25.620	0.1040	95.40
50.0	10.057	33.568	25.824	0.1270	95.90
60.0	9.653	33.647	25.953	0.1484	96.00
80.0	9.238	33.837	26.169	0.1882	96.00
100.0	8.877	33.909	26.283	0.2246	96.10
150.0	8.429	34.005	26.428	0.3098	96.00
200.0	8.116	34.069	26.526	0.3898	96.20
250.0	7.773	34.091	26.593	0.4662	96.10
300.0	7.285	34.111	26.679	0.5401	95.50
400.0	6.275	34.132	26.831	0.6754	96.20
421.0	6.068	34.147	26.870	0.7020	95.50



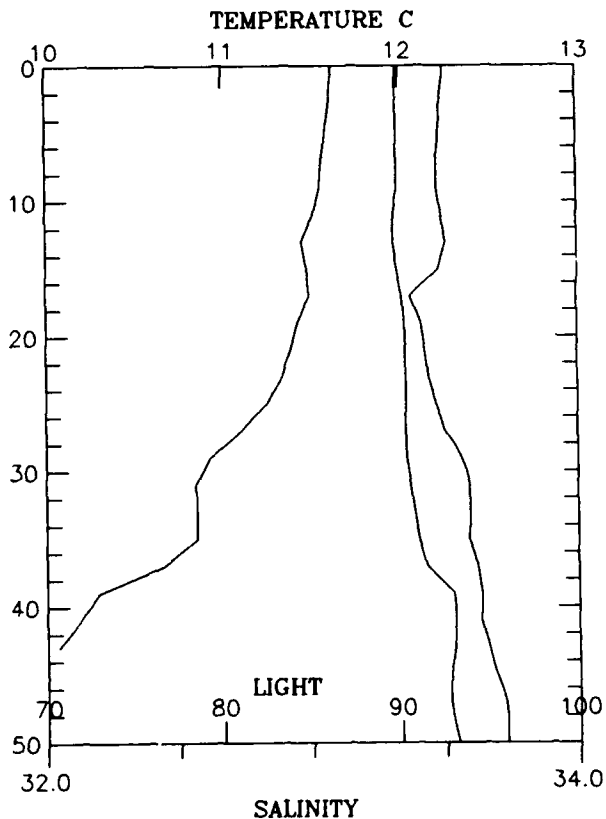
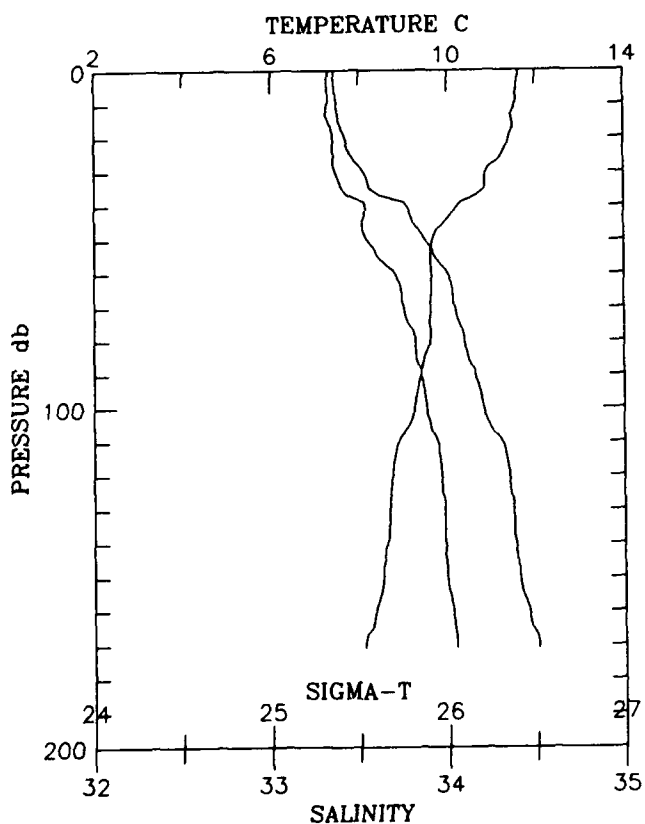
Cruise W8811 Station # 77 Depth m: 389 Time: 19 NOV 1988,1753  
 Position: 38 37.90'N 123 45.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.247	33.094	25.247	0.0000	92.90
10.0	11.258	33.103	25.253	0.0246	92.60
20.0	11.412	33.188	25.291	0.0519	92.40
30.0	11.449	33.259	25.339	0.0787	92.60
40.0	10.240	33.268	25.560	0.1041	96.00
50.0	9.901	33.398	25.718	0.1280	96.10
60.0	9.656	33.594	25.911	0.1497	95.80
80.0	9.560	33.799	26.087	0.1901	92.90
100.0	9.059	33.868	26.223	0.2280	95.60
150.0	8.662	33.970	26.365	0.3159	93.60
200.0	7.953	34.034	26.522	0.3982	95.30
250.0	7.674	34.075	26.595	0.4744	95.30
300.0	7.334	34.105	26.668	0.5476	95.50
381.0	6.569	34.122	26.785	0.6601	96.00



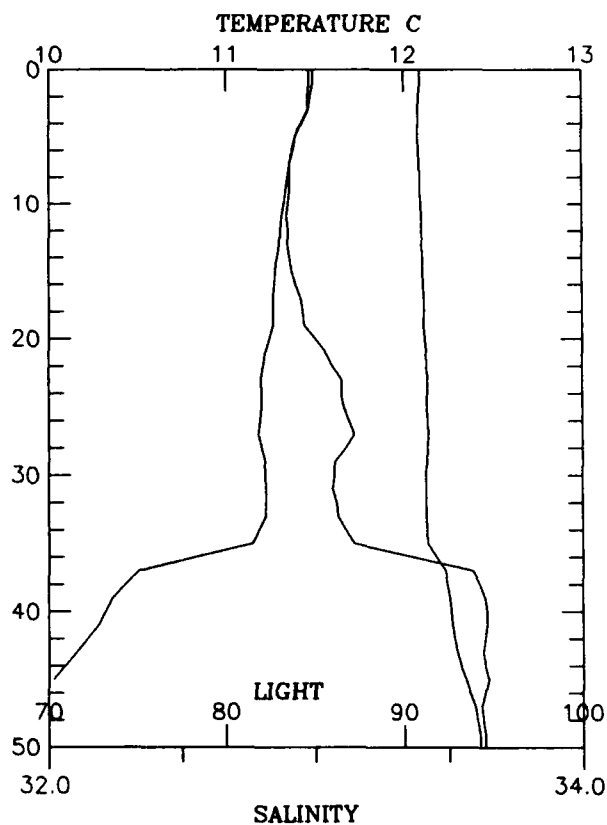
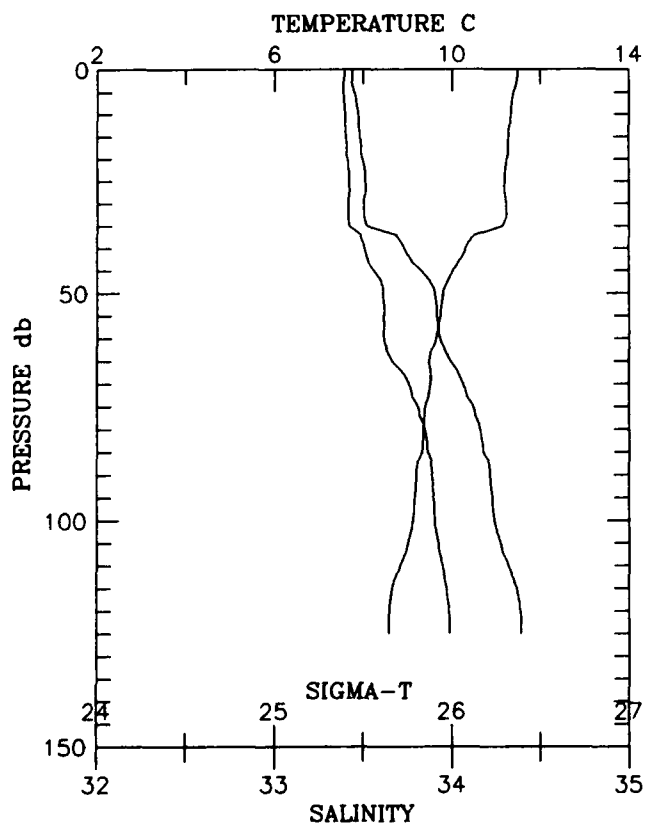
Cruise W8811 Station # 78 Depth m: 179 Time: 19 NOV 1988,1854  
 Position: 38 39.90'N 123 42.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.622	33.323	25.357	0.0000	92.50
10.0	11.536	33.319	25.370	0.0237	92.20
20.0	11.405	33.352	25.420	0.0497	91.30
30.0	10.886	33.365	25.523	0.0751	93.70
40.0	10.238	33.533	25.766	0.0992	94.50
50.0	9.665	33.545	25.872	0.1213	95.90
60.0	9.632	33.700	25.999	0.1423	94.70
70.0	9.615	33.749	26.040	0.1624	93.90
80.0	9.600	33.816	26.094	0.1822	92.40
90.0	9.387	33.849	26.155	0.2014	93.10
100.0	9.238	33.879	26.203	0.2201	94.40
110.0	8.881	33.939	26.307	0.2382	95.50
120.0	8.733	33.963	26.348	0.2555	95.60
130.0	8.674	33.979	26.370	0.2726	95.50
140.0	8.616	33.983	26.382	0.2895	94.80
150.0	8.517	33.991	26.404	0.3062	94.00
160.0	8.354	34.025	26.455	0.3227	95.40
170.0	8.104	34.042	26.507	0.3386	94.00
171.0	8.101	34.043	26.507	0.3402	94.00



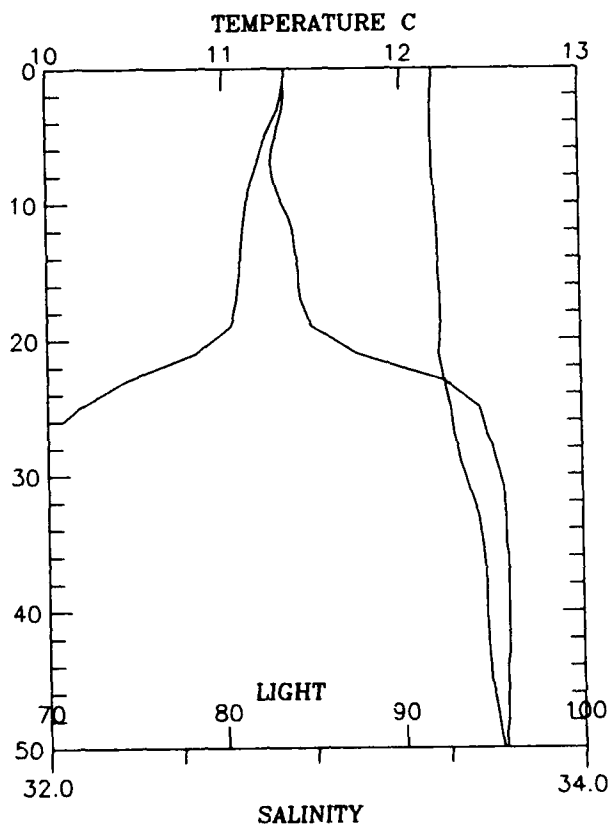
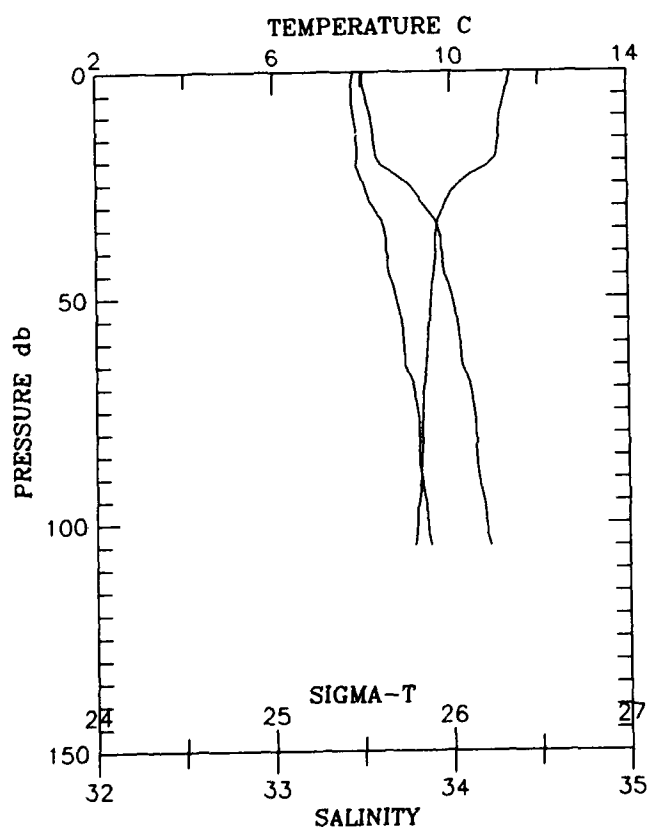
Cruise W8811 Station # 79 Depth m: 133 Time: 19 NOV 1988,1941  
 Position: 38 41.50'N 123 40.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.490	33.393	25.436	0.0000	84.70
10.0	11.324	33.396	25.469	0.0229	83.50
20.0	11.242	33.411	25.495	0.0481	85.00
30.0	11.221	33.416	25.503	0.0731	86.10
40.0	10.318	33.507	25.733	0.0973	94.60
50.0	9.804	33.614	25.903	0.1193	94.50
60.0	9.639	33.617	25.933	0.1405	95.40
70.0	9.513	33.757	26.063	0.1609	93.40
80.0	9.356	33.846	26.158	0.1801	93.40
90.0	9.205	33.890	26.217	0.1988	93.50
100.0	9.122	33.903	26.240	0.2170	93.10
110.0	8.833	33.945	26.319	0.2348	93.80
120.0	8.591	33.984	26.387	0.2519	91.30
125.0	8.575	33.987	26.391	0.2602	90.30



Cruise W8811 Station # 80 Depth m: 115 Time: 19 NOV 1988,2028  
 Position: 38 42.80'N 123 38.30'W Depth Deck Offset: 0.00

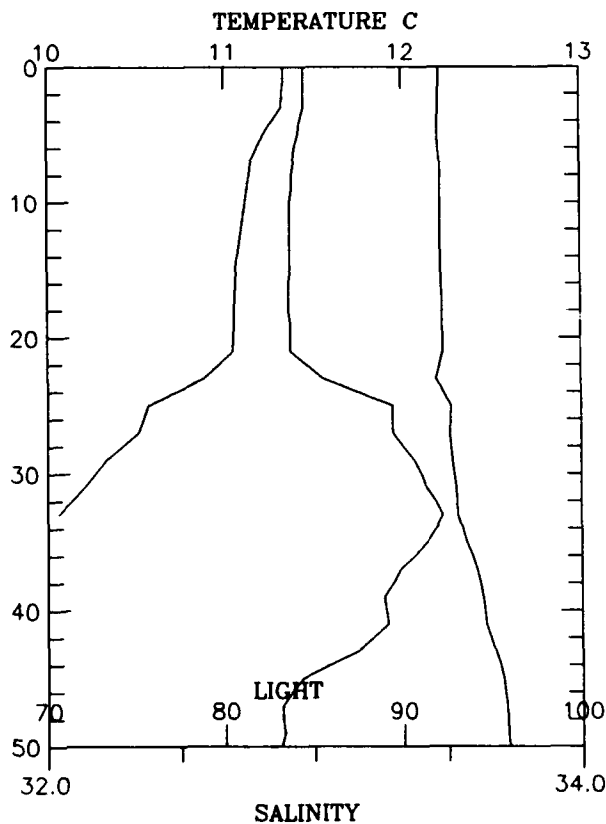
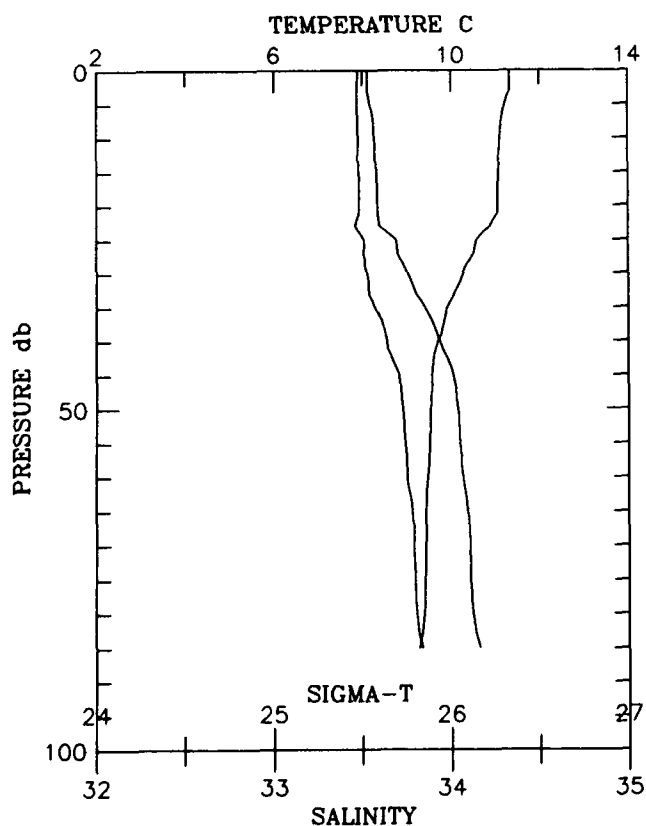
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.349	33.451	25.507	0.0000	83.50
10.0	11.130	33.459	25.553	0.0223	83.30
20.0	10.939	33.473	25.597	0.0466	86.20
30.0	9.854	33.563	25.855	0.0693	95.40
40.0	9.648	33.639	25.949	0.0904	95.80
50.0	9.548	33.693	26.007	0.1110	95.60
60.0	9.468	33.733	26.051	0.1310	92.20
70.0	9.380	33.788	26.109	0.1507	86.70
80.0	9.337	33.816	26.137	0.1699	84.80
90.0	9.299	33.829	26.153	0.1889	83.60
100.0	9.212	33.862	26.193	0.2077	84.30
105.0	9.161	33.880	26.216	0.2169	84.30





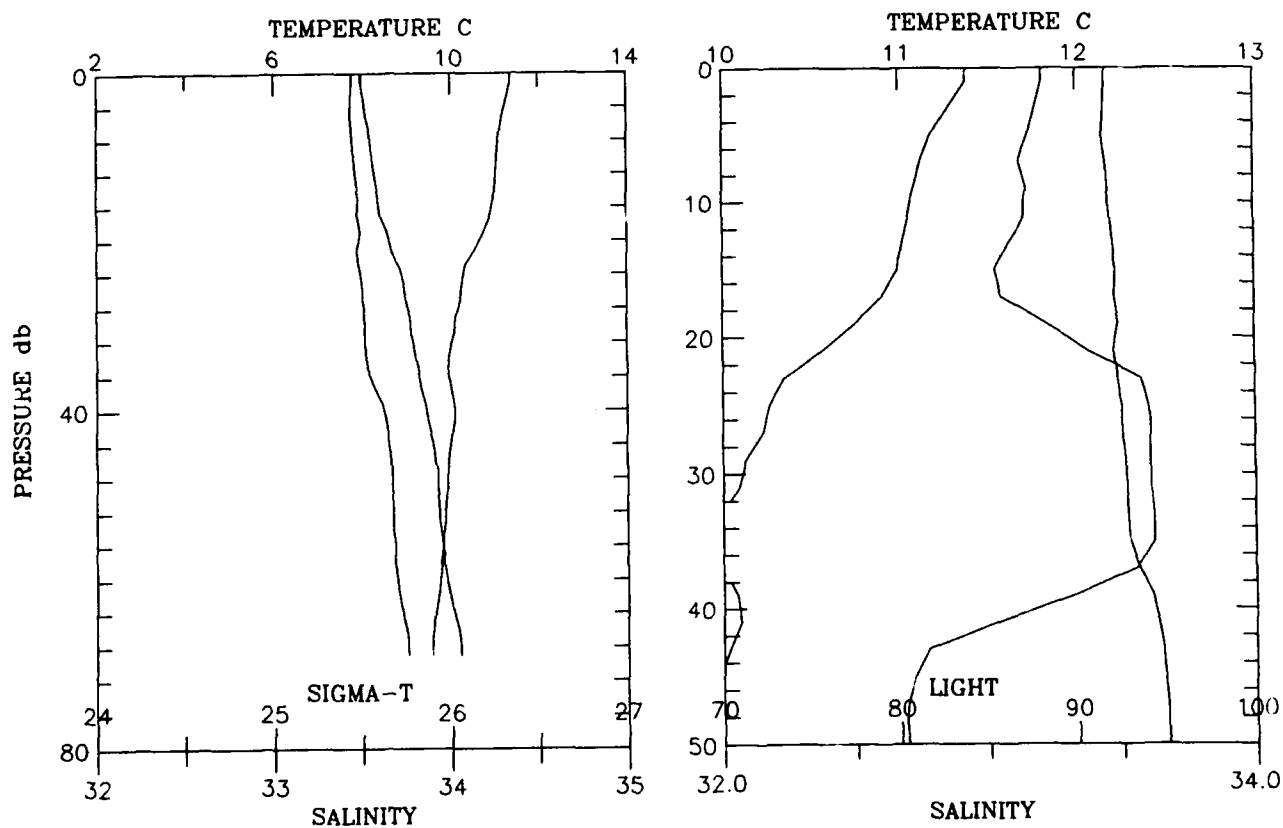
Cruise W8811 Station # 81 Depth m: 95 Time: 19 NOV 1988,2112  
 Position: 38 44.30'N 123 36.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.335	33.473	25.527	0.0000	84.50
5.0	11.225	33.468	25.542	0.0099	84.20
10.0	11.118	33.476	25.568	0.0221	83.70
15.0	11.065	33.478	25.579	0.0343	83.70
20.0	11.050	33.482	25.585	0.0464	83.70
25.0	10.567	33.511	25.692	0.0584	89.40
30.0	10.267	33.525	25.755	0.0699	91.00
35.0	9.907	33.569	25.851	0.0810	91.30
40.0	9.707	33.636	25.936	0.0916	89.00
45.0	9.571	33.705	26.013	0.1019	84.30
50.0	9.528	33.726	26.036	0.1119	83.10
55.0	9.510	33.740	26.050	0.1219	82.80
60.0	9.469	33.752	26.066	0.1318	84.00
65.0	9.426	33.779	26.094	0.1416	84.00
70.0	9.415	33.787	26.102	0.1513	83.30
75.0	9.402	33.792	26.108	0.1610	83.10
80.0	9.375	33.804	26.122	0.1706	82.60
85.0	9.283	33.836	26.162	0.1802	81.40



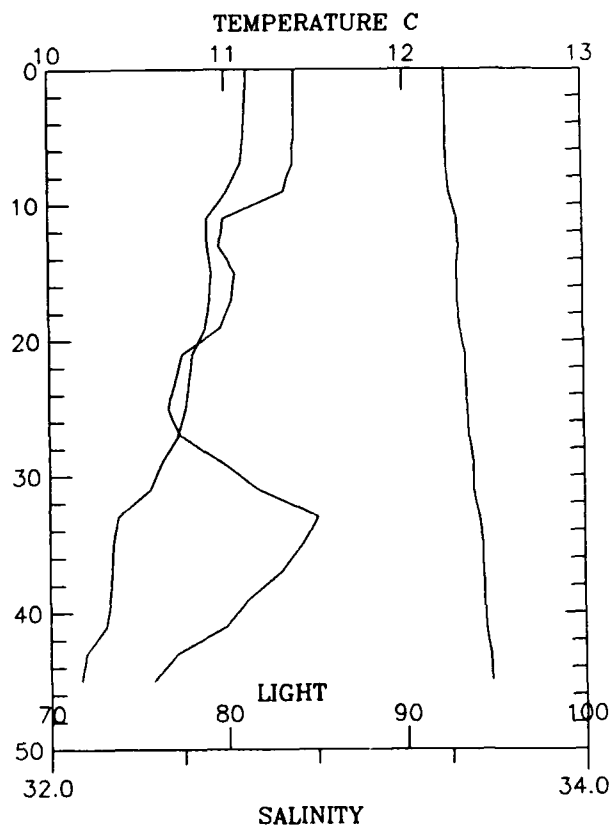
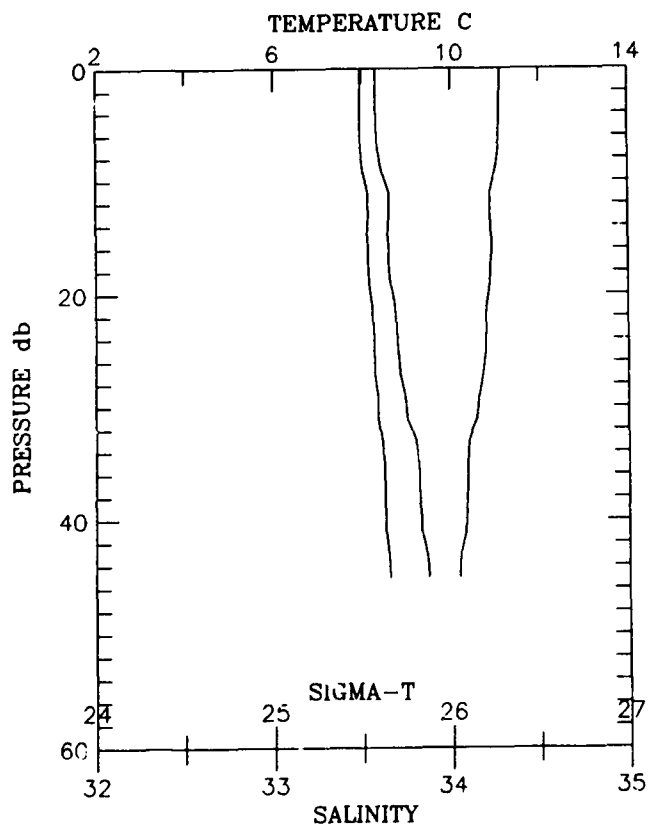
Cruise W8811 Station # 82 Depth m: 78 Time: 19 NOV 1988, 2144  
 Position: 38 45.20'N 123 35.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.379	33.443	25.495	0.0000	88.1
5.0	11.181	33.432	25.522	0.0050	87.3
10.0	11.066	33.454	25.561	0.0173	87.1
15.0	10.990	33.479	25.594	0.0294	85.4
20.0	10.656	33.479	25.653	0.0414	89.5
25.0	10.259	33.499	25.737	0.0529	94.0
30.0	10.107	33.516	25.776	0.0643	94.1
35.0	9.932	33.530	25.816	0.0754	94.3
40.0	10.087	33.622	25.862	0.0863	87.7
45.0	9.976	33.658	25.909	0.0970	80.8
50.0	9.906	33.669	25.929	0.1075	80.4
55.0	9.825	33.680	25.951	0.1180	81.5
60.0	9.747	33.694	25.975	0.1284	79.8
65.0	9.611	33.736	26.030	0.1385	76.3
69.0	9.568	33.756	26.053	0.1465	72.8



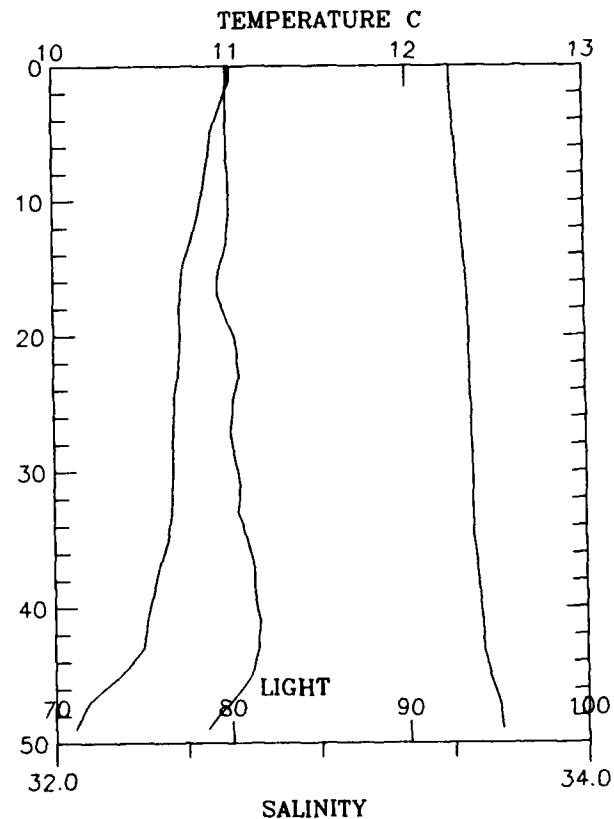
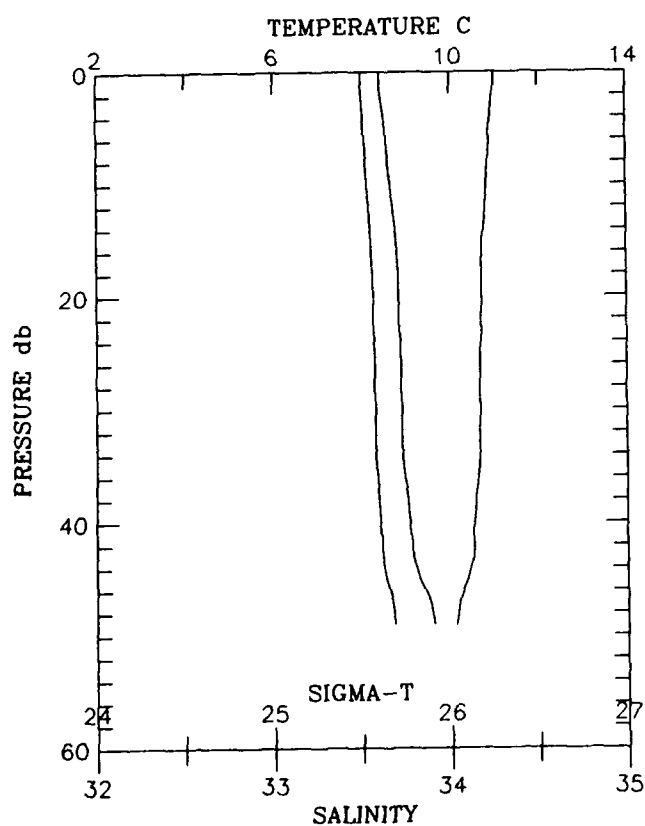
Cruise W8811 Station # 83 Depth m: 55 Time: 19 NOV 1988,2211  
 Position: 38 46.00'N 123 34.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.122	33.490	25.579	0.0000	83.9
5.0	11.109	33.493	25.583	0.0048	83.9
10.0	10.953	33.517	25.629	0.0169	81.6
15.0	10.918	33.529	25.646	0.0287	80.5
20.0	10.845	33.547	25.672	0.0405	78.6
25.0	10.769	33.565	25.699	0.0521	76.7
30.0	10.599	33.585	25.745	0.0635	80.7
35.0	10.355	33.618	25.813	0.0747	84.2
40.0	10.325	33.627	25.825	0.0858	80.5
45.0	10.174	33.650	25.869	0.0966	75.8



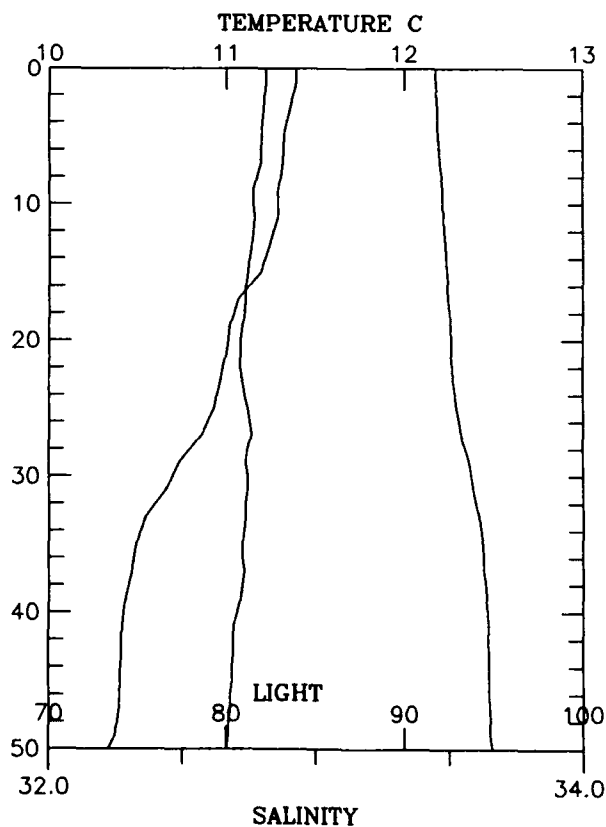
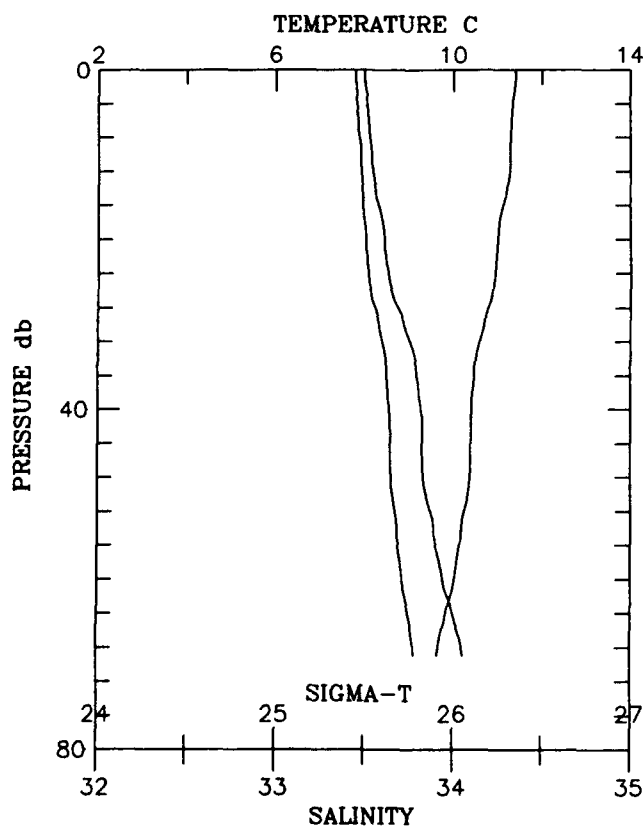
Cruise W8811 Station # 84 Depth m: 55 Time: 19 NOV 1988,2313  
 Position: 38 51.50'N 123 41.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.011	33.499	25.605	0.0000	79.9
5.0	10.900	33.515	25.638	0.0048	79.9
10.0	10.839	33.532	25.661	0.0166	80.0
15.0	10.734	33.553	25.697	0.0282	79.4
20.0	10.714	33.563	25.708	0.0398	80.2
25.0	10.680	33.571	25.719	0.0513	80.1
30.0	10.670	33.575	25.724	0.0627	80.4
35.0	10.644	33.579	25.733	0.0742	80.9
40.0	10.537	33.602	25.769	0.0855	81.4
45.0	10.364	33.633	25.823	0.0967	81.1
49.0	10.110	33.679	25.902	0.1053	78.6



Cruise W8811 Station # 85 Depth m: 78 Time: 19 NOV 1988,2339  
 Position: 38 50.80'N 123 42.30'W Depth Deck Offset: 0.00

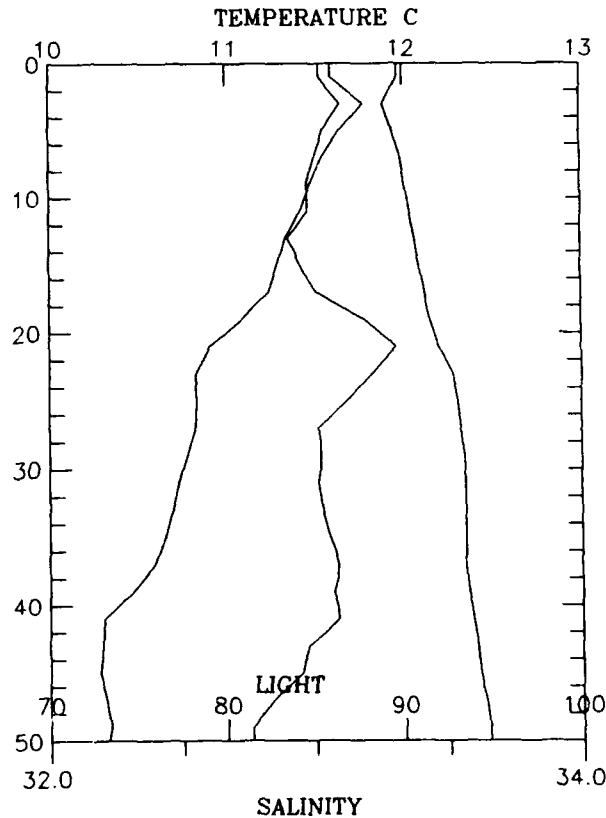
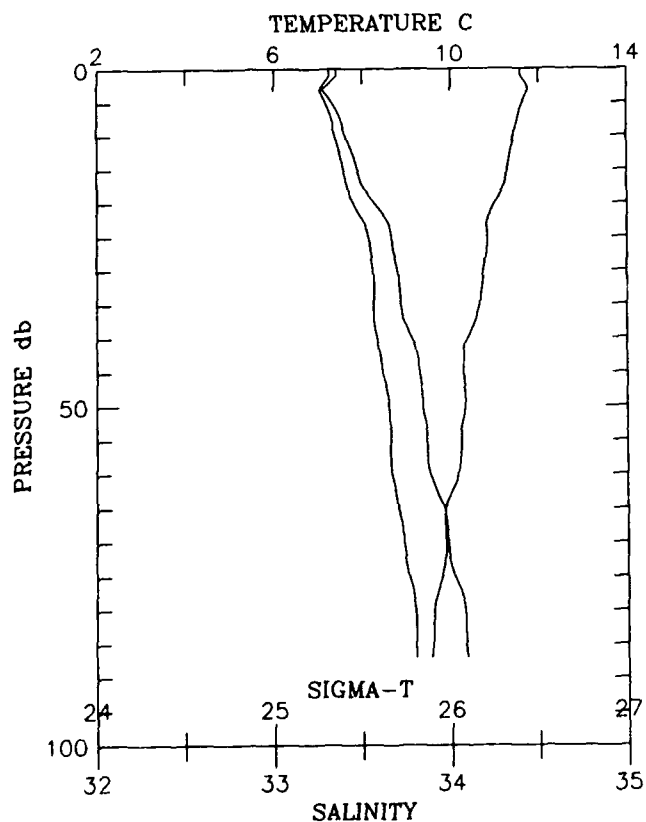
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.393	33.450	25.498	0.0000	82.2
5.0	11.323	33.460	25.519	0.0050	82.0
10.0	11.289	33.476	25.538	0.0174	81.5
15.0	11.191	33.491	25.567	0.0296	81.2
20.0	11.009	33.506	25.612	0.0417	80.8
25.0	10.930	33.526	25.641	0.0536	81.2
30.0	10.696	33.582	25.726	0.0653	81.2
35.0	10.493	33.626	25.795	0.0765	80.9
40.0	10.420	33.643	25.821	0.0876	80.6
45.0	10.403	33.649	25.828	0.0986	80.3
50.0	10.339	33.660	25.849	0.1096	80.0
55.0	10.177	33.686	25.896	0.1203	79.7
60.0	10.033	33.714	25.943	0.1309	77.8
65.0	9.809	33.756	26.013	0.1412	79.8
69.0	9.652	33.784	26.061	0.1492	79.5



Cruise W8811 Station # 86 Depth m: 96 Time: 20 NOV 1988,0002  
 Position: 38 49.90'N 123 43.50'W Depth Deck Offset: 0.00

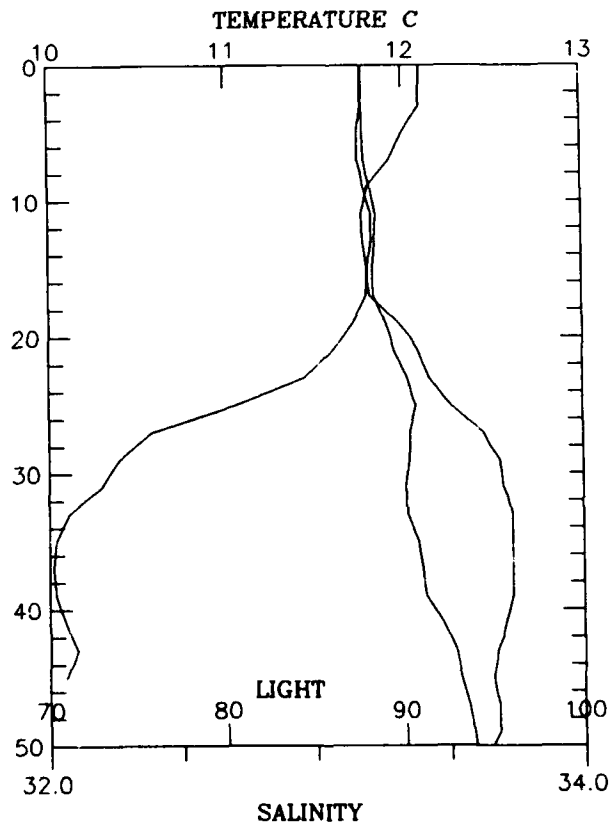
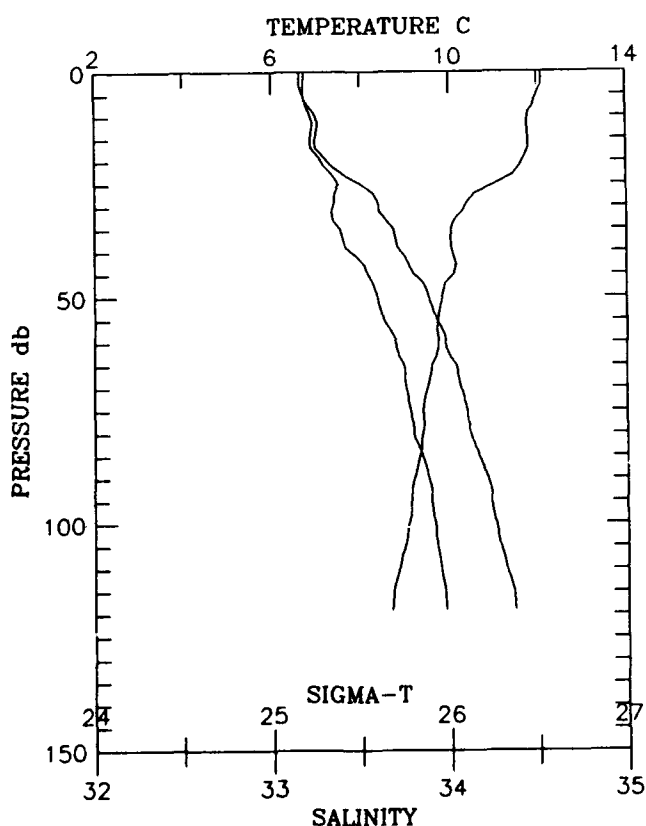
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	11.596	33.313	25.355	0.0000	85.30
5.0	11.645	33.295	25.331	0.0107	85.50
10.0	11.450	33.349	25.410	0.0238	84.60
15.0	11.291	33.394	25.474	0.0366	84.20
20.0	10.999	33.449	25.568	0.0490	88.70
25.0	10.830	33.535	25.666	0.0609	86.80
30.0	10.753	33.560	25.699	0.0726	85.30
35.0	10.651	33.563	25.719	0.0841	85.80
40.0	10.384	33.582	25.780	0.0955	86.20
45.0	10.279	33.613	25.822	0.1066	84.20
50.0	10.327	33.650	25.842	0.1175	81.40
55.0	10.235	33.658	25.864	0.1284	82.00
60.0	10.163	33.668	25.885	0.1392	82.60
65.0	9.856	33.701	25.962	0.1497	84.20
70.0	9.887	33.734	25.983	0.1600	83.80
75.0	9.793	33.760	26.019	0.1702	83.90
80.0	9.614	33.798	26.078	0.1802	83.00
85.0	9.593	33.802	26.085	0.1900	83.20
87.0	9.573	33.806	26.091	0.1939	83.20



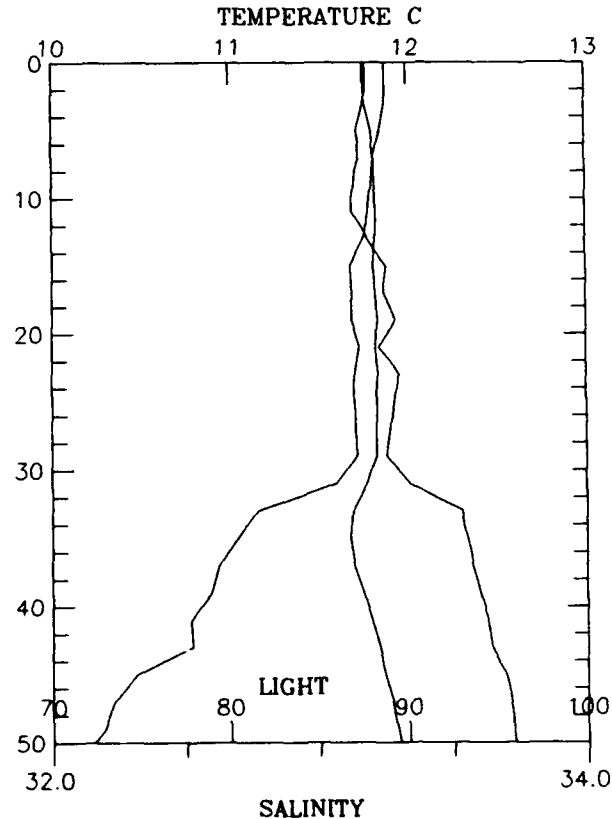
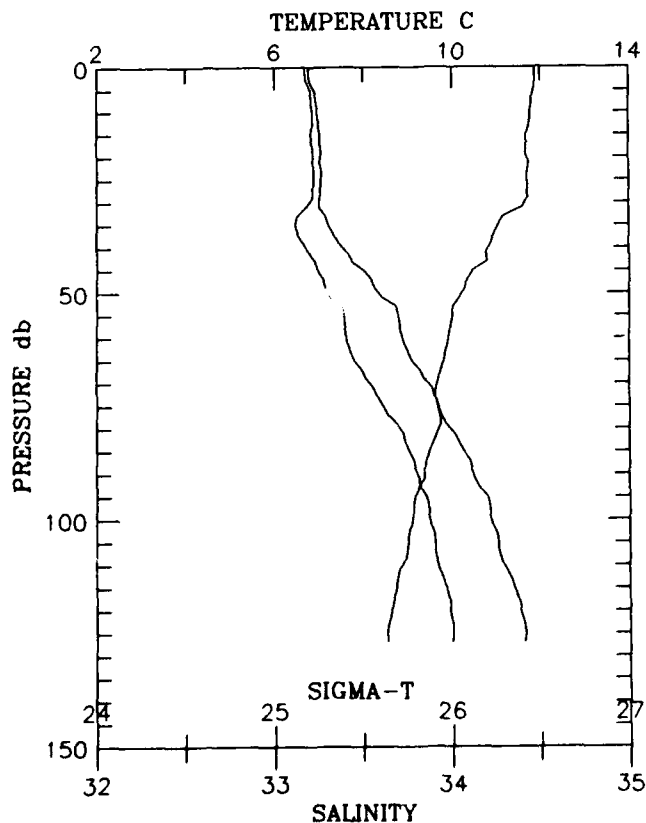
Cruise W8811 Station # 87 Depth m: 127 Time: 20 NOV 1988,0030  
 Position: 38 48.30'N 123 45.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.102	33.185	25.161	0.0000	87.70
10.0	11.784	33.221	25.249	0.0251	88.00
20.0	11.658	33.281	25.318	0.0524	90.30
30.0	10.342	33.343	25.601	0.0776	95.40
40.0	10.061	33.442	25.726	0.1011	95.80
50.0	9.829	33.593	25.882	0.1233	94.80
60.0	9.736	33.695	25.977	0.1443	85.80
70.0	9.497	33.755	26.064	0.1644	86.70
80.0	9.377	33.795	26.115	0.1839	88.90
90.0	9.184	33.878	26.211	0.2027	92.60
100.0	9.058	33.913	26.258	0.2209	92.10
110.0	8.842	33.947	26.319	0.2386	90.60
119.0	8.687	33.975	26.365	0.2540	90.50



Cruise W8811 Station # 88 Depth m: 135 Time: 20 NOV 1988,0055  
 Position: 38 47.20'N 123 47.20'W Depth Deck Offset: 0.00

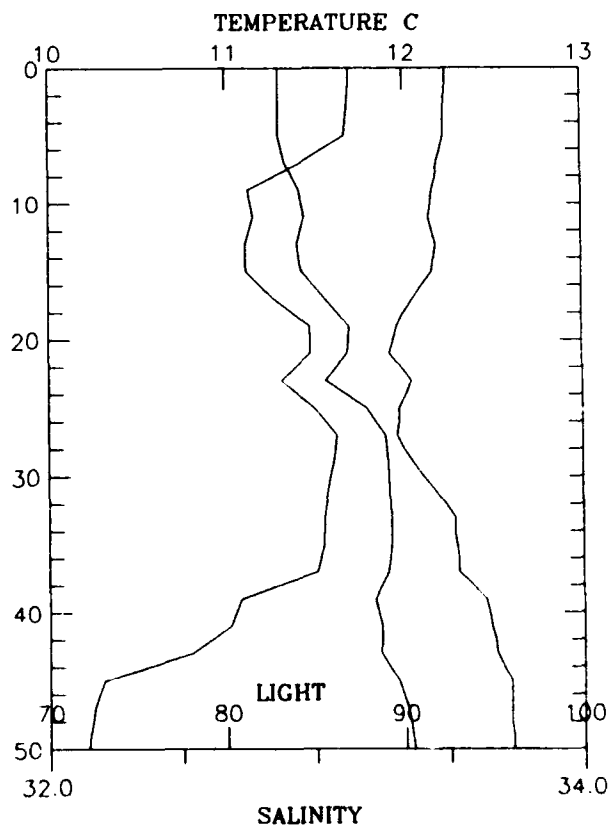
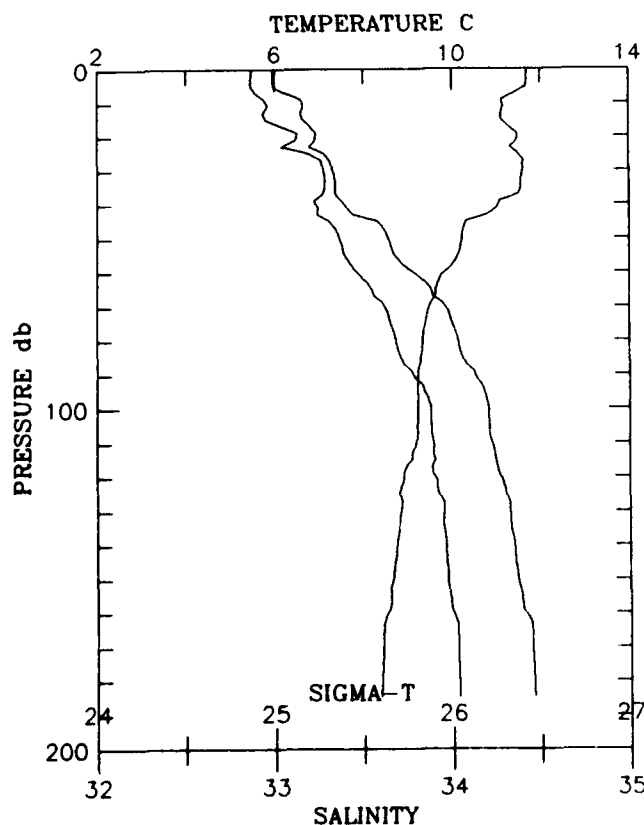
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.879	33.171	25.192	0.0000	87.70
10.0	11.790	33.214	25.242	0.0249	86.90
20.0	11.708	33.217	25.259	0.0523	88.90
30.0	11.658	33.198	25.254	0.0796	89.50
40.0	10.835	33.180	25.388	0.1065	94.20
50.0	10.226	33.299	25.587	0.1316	95.90
60.0	9.920	33.406	25.721	0.1550	96.10
70.0	9.665	33.538	25.866	0.1774	96.10
80.0	9.705	33.706	25.991	0.1985	92.60
90.0	9.379	33.803	26.121	0.2183	94.60
100.0	9.101	33.873	26.220	0.2370	95.40
110.0	8.864	33.921	26.295	0.2550	96.00
120.0	8.622	33.988	26.385	0.2721	95.70
127.0	8.540	33.996	26.405	0.2838	94.40





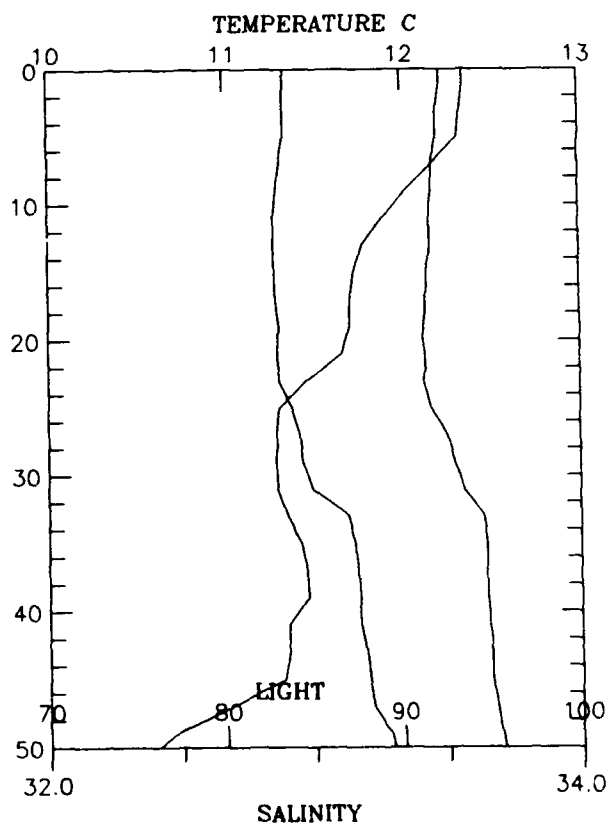
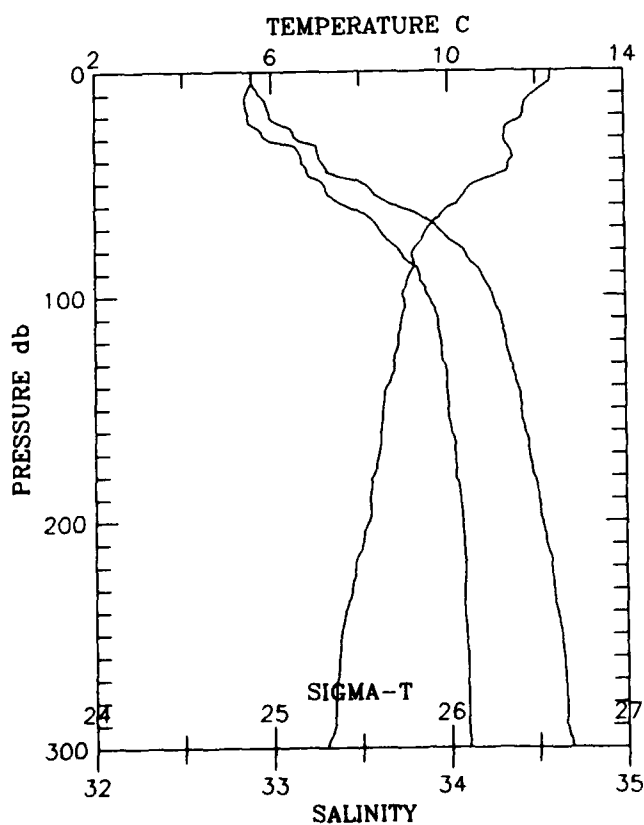
Cruise W8811 Station # 89 Depth m: 195 Time: 20 NOV 1988,0123  
 Position: 38 45.90'N 123 49.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.698	32.868	24.990	0.0000	92.40
10.0	11.141	32.952	25.156	0.0162	91.50
20.0	11.474	33.126	25.231	0.0442	89.40
30.0	11.586	33.274	25.326	0.0715	91.10
40.0	11.045	33.232	25.391	0.0980	94.70
50.0	10.215	33.365	25.640	0.1228	96.00
60.0	9.835	33.463	25.779	0.1460	96.10
70.0	9.483	33.621	25.961	0.1676	96.10
80.0	9.334	33.683	26.034	0.1880	96.00
90.0	9.214	33.778	26.128	0.2077	96.20
100.0	9.214	33.876	26.204	0.2265	96.30
110.0	9.179	33.892	26.222	0.2449	96.30
120.0	8.899	33.902	26.275	0.2630	96.30
130.0	8.825	33.949	26.323	0.2806	96.20
140.0	8.733	33.961	26.347	0.2979	96.20
150.0	8.649	33.973	26.369	0.3150	96.20
160.0	8.524	34.001	26.410	0.3318	96.20
170.0	8.417	34.026	26.447	0.3482	95.70
180.0	8.389	34.032	26.455	0.3645	95.70
185.0	8.371	34.034	26.460	0.3726	95.40



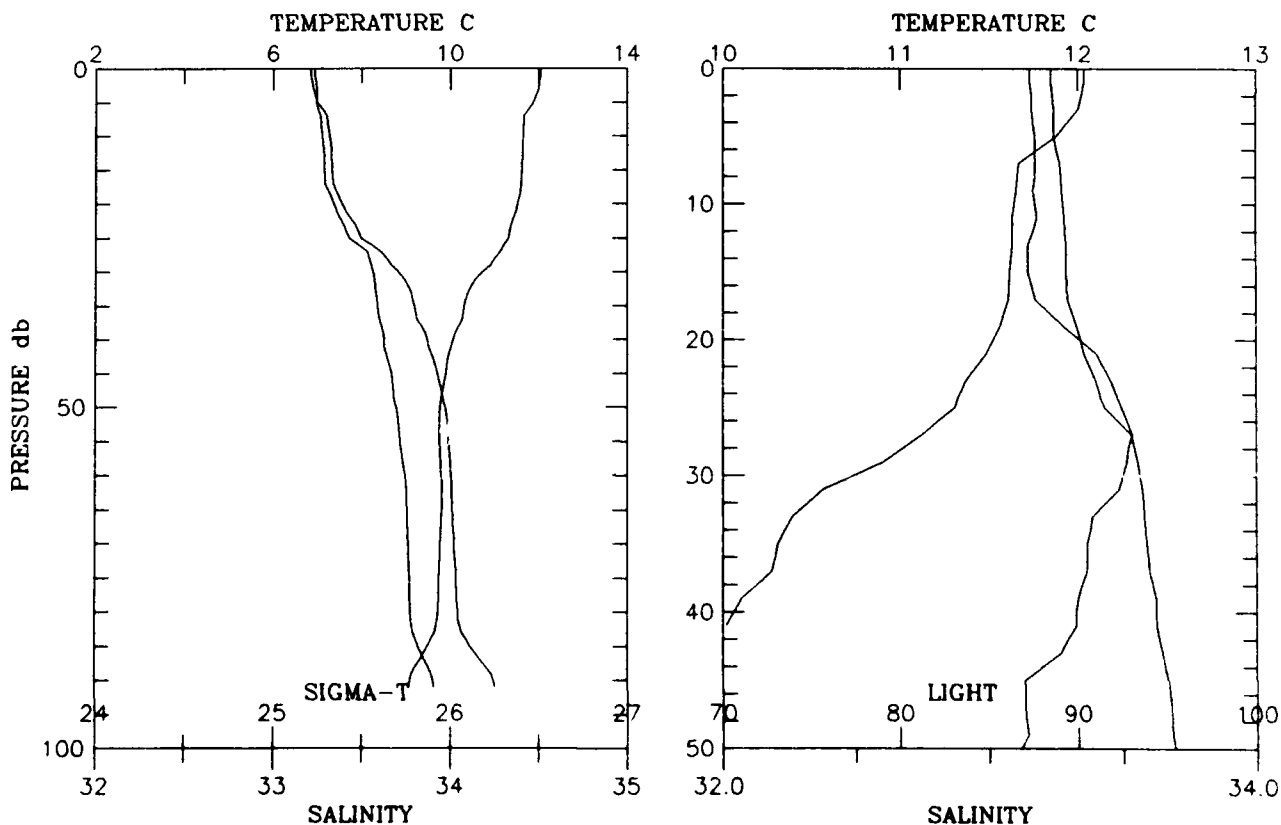
Cruise W8811 Station # 90 Depth m: 308 Time: 20 NOV 1988,0157  
 Position: 38 44.80'N 123 50.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.352	32.893	24.887	0.0000	92.20
10.0	11.961	32.857	24.933	0.0276	91.60
20.0	11.684	32.867	24.992	0.0577	91.20
30.0	11.290	32.975	25.148	0.0867	93.20
40.0	11.406	33.169	25.277	0.1143	94.80
50.0	10.608	33.291	25.514	0.1407	95.60
60.0	10.078	33.421	25.706	0.1649	96.10
80.0	9.193	33.725	26.089	0.2070	96.20
100.0	8.962	33.883	26.249	0.2444	96.30
150.0	8.504	33.995	26.409	0.3307	96.40
200.0	8.158	34.071	26.521	0.4112	96.50
250.0	7.522	34.090	26.629	0.4867	95.60
299.0	7.200	34.102	26.684	0.5576	95.60



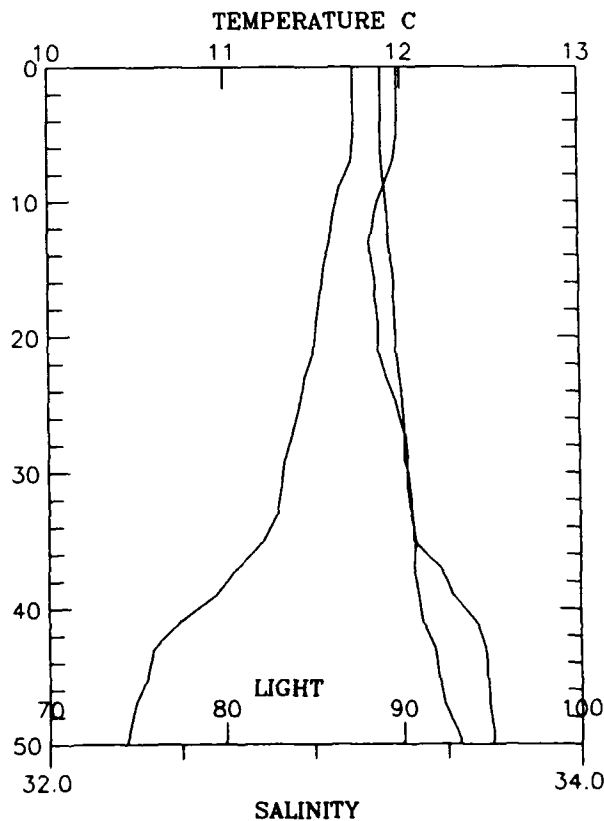
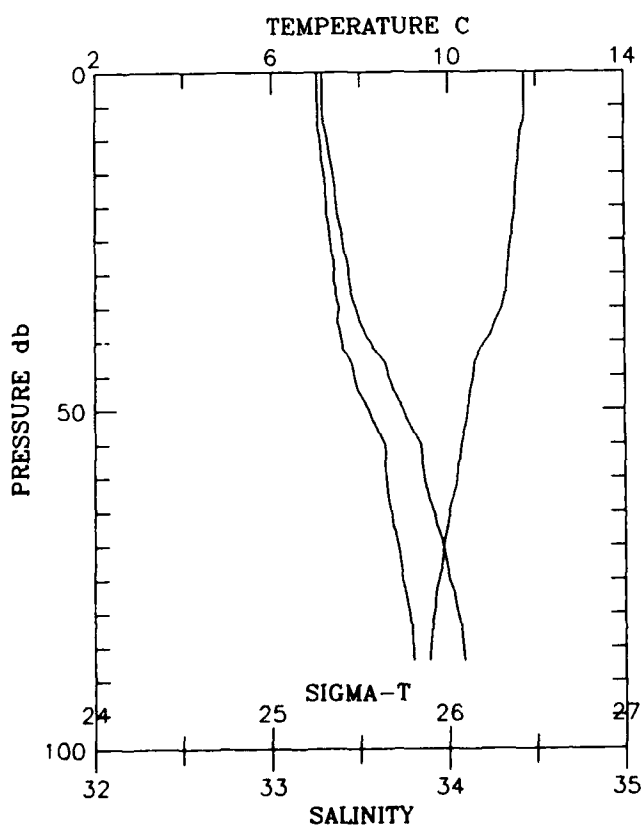
Cruise W8811 Station # 91 Depth m: 99 Time: 20 NOV 1988,0326  
 Position: 38 56.50'N 123 47.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.036	33.233	25.211	0.0000	87.30
5.0	11.878	33.244	25.249	0.0110	87.60
10.0	11.642	33.277	25.318	0.0245	87.60
15.0	11.618	33.290	25.333	0.0378	87.20
20.0	11.524	33.342	25.390	0.0510	90.10
25.0	11.308	33.429	25.497	0.0638	92.40
30.0	10.735	33.564	25.705	0.0758	92.50
35.0	10.309	33.590	25.799	0.0871	90.50
40.0	10.061	33.625	25.869	0.0980	89.90
45.0	9.909	33.669	25.929	0.1087	87.00
50.0	9.771	33.694	25.971	0.1191	86.80
55.0	9.765	33.718	25.990	0.1293	85.60
60.0	9.802	33.745	26.006	0.1395	84.30
65.0	9.812	33.756	26.013	0.1496	83.60
70.0	9.776	33.764	26.024	0.1597	84.10
75.0	9.750	33.771	26.034	0.1698	84.80
80.0	9.724	33.777	26.044	0.1798	84.30
85.0	9.495	33.820	26.115	0.1897	84.90
90.0	9.097	33.904	26.245	0.1990	84.90
91.0	9.069	33.911	26.255	0.2008	84.90



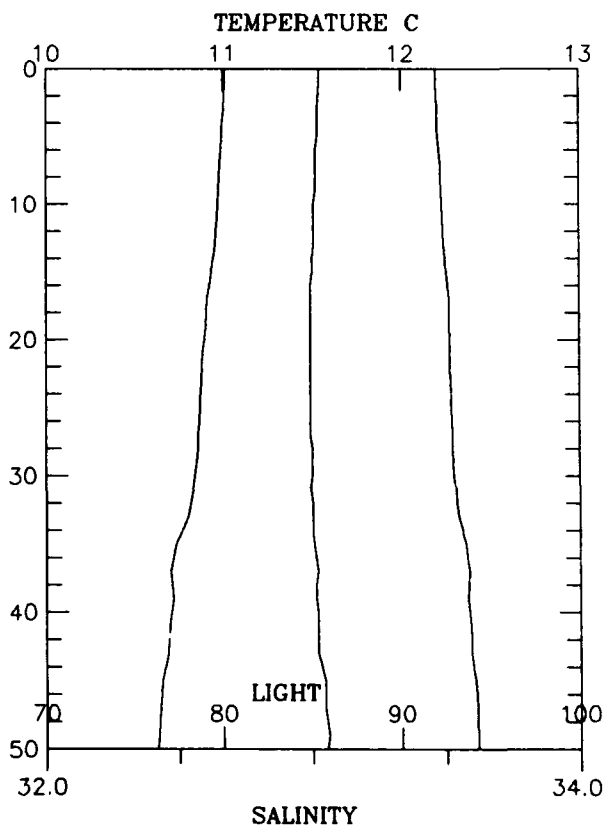
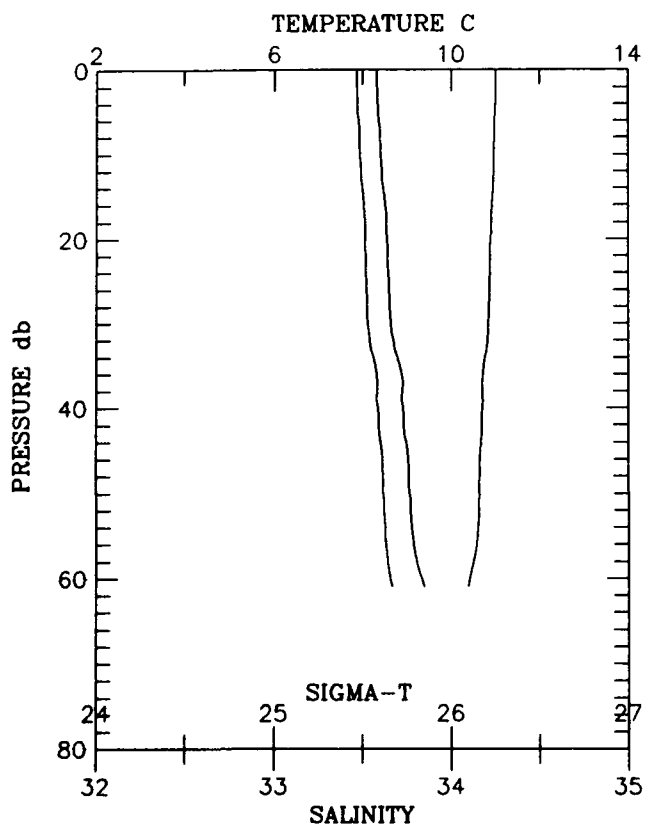
Cruise W8811 Station # 92 Depth m: 96 Time: 20 NOV 1988,0427  
 Position: 39 3.00'N 123 49.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.734	33.259	25.288	0.0000	89.80
5.0	11.737	33.261	25.288	0.0108	89.80
10.0	11.637	33.277	25.319	0.0243	88.70
15.0	11.560	33.300	25.351	0.0376	88.40
20.0	11.513	33.310	25.367	0.0507	88.70
25.0	11.425	33.336	25.404	0.0638	89.70
30.0	11.328	33.352	25.434	0.0767	90.30
35.0	11.214	33.381	25.477	0.0895	90.60
40.0	10.840	33.398	25.557	0.1019	93.50
45.0	10.555	33.465	25.659	0.1139	94.70
50.0	10.437	33.550	25.745	0.1255	95.00
55.0	10.279	33.638	25.841	0.1367	94.70
60.0	10.194	33.649	25.864	0.1476	94.70
65.0	10.012	33.674	25.915	0.1583	94.90
70.0	9.884	33.714	25.968	0.1688	94.30
75.0	9.783	33.740	26.005	0.1790	92.40
80.0	9.670	33.778	26.053	0.1890	84.70
85.0	9.587	33.797	26.082	0.1989	83.10
87.0	9.561	33.801	26.090	0.2028	83.20



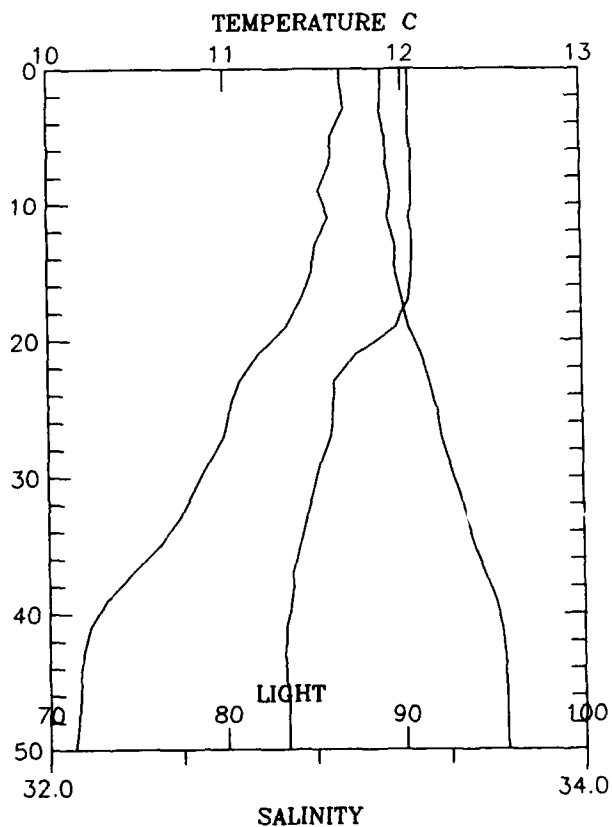
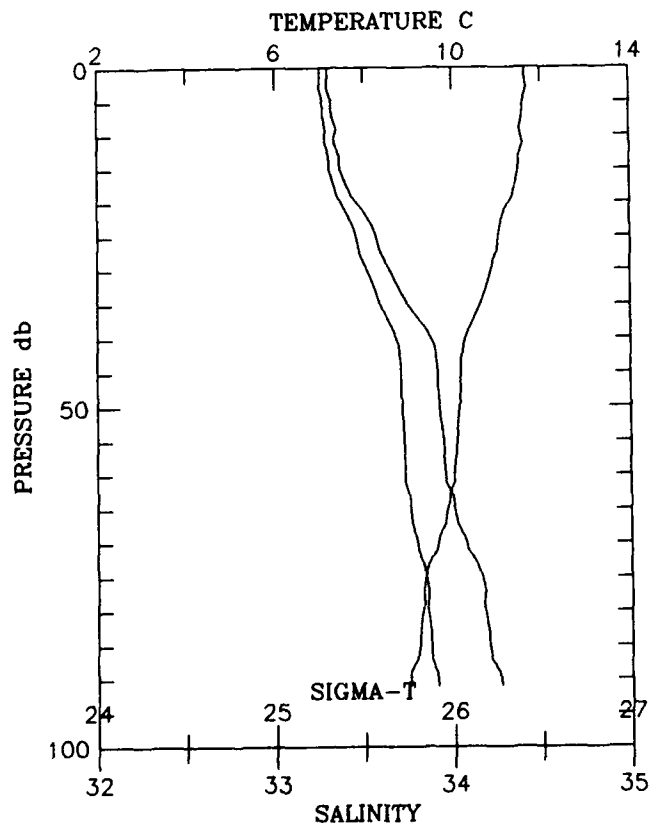
Cruise W8811 Station # 93 Depth m: 72 Time: 20 NOV 1988,0535  
 Position: 39 10.60'N 123 47.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.011	33.465	25.579	0.0000	85.4
5.0	10.992	33.472	25.587	0.0048	85.3
10.0	10.969	33.486	25.603	0.0169	85.1
15.0	10.933	33.502	25.622	0.0289	85.0
20.0	10.892	33.514	25.638	0.0408	84.9
25.0	10.867	33.520	25.647	0.0526	84.9
30.0	10.840	33.530	25.660	0.0644	85.0
35.0	10.730	33.573	25.712	0.0761	85.1
40.0	10.703	33.585	25.727	0.0875	85.3
45.0	10.653	33.608	25.754	0.0989	85.7
50.0	10.628	33.617	25.765	0.1103	85.8
55.0	10.583	33.628	25.781	0.1215	85.6
60.0	10.417	33.657	25.833	0.1326	83.8
61.0	10.376	33.667	25.847	0.1348	83.2



Cruise W8811 Station # 94 Depth m: 100 Time: 20 NOV 1988,0603  
 Position: 39 10.20'N 123 48.00'W Depth Deck Offset: 0.00

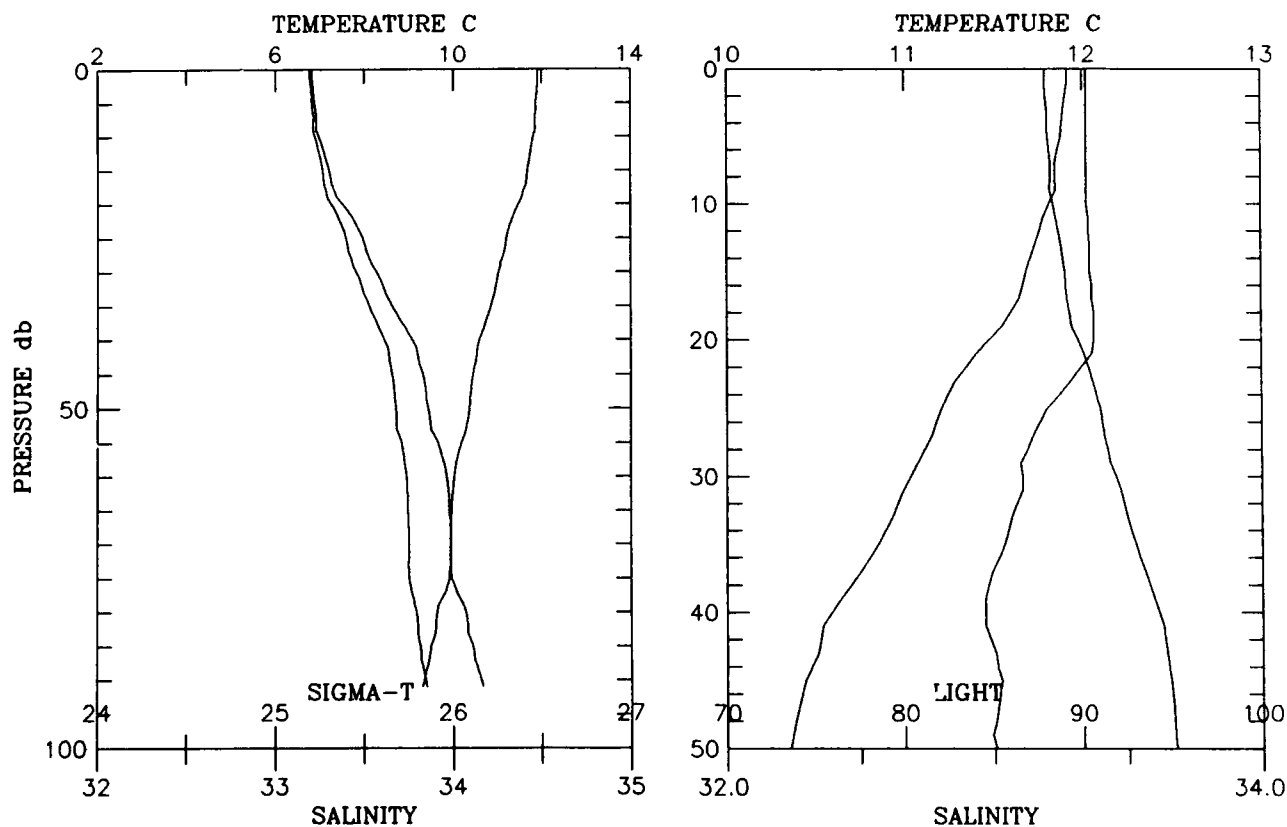
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.656	33.257	25.300	0.0000	90.4
5.0	11.604	33.271	25.321	0.0107	90.4
10.0	11.558	33.285	25.340	0.0241	90.5
15.0	11.490	33.306	25.368	0.0373	90.5
20.0	11.263	33.376	25.464	0.0502	88.5
25.0	11.022	33.456	25.569	0.0626	86.0
30.0	10.858	33.518	25.647	0.0746	85.1
35.0	10.624	33.590	25.745	0.0862	84.1
40.0	10.275	33.679	25.875	0.0973	83.5
45.0	10.171	33.707	25.914	0.1079	83.3
50.0	10.138	33.711	25.922	0.1185	83.4
55.0	10.077	33.723	25.942	0.1290	83.4
60.0	10.026	33.730	25.956	0.1394	83.0
65.0	9.863	33.756	26.004	0.1496	82.1
70.0	9.641	33.792	26.069	0.1597	81.6
75.0	9.347	33.843	26.157	0.1693	81.0
80.0	9.290	33.854	26.175	0.1787	80.9
85.0	9.221	33.869	26.197	0.1880	80.2
90.0	9.005	33.904	26.260	0.1971	79.8
91.0	8.993	33.907	26.264	0.1989	79.9



Cruise W8811 Station # 95 Depth m: 102 Time: 20 NOV 1988,0649  
 Position: 39 10.00'N 123 48.30'W Depth Deck Offset: 0.00

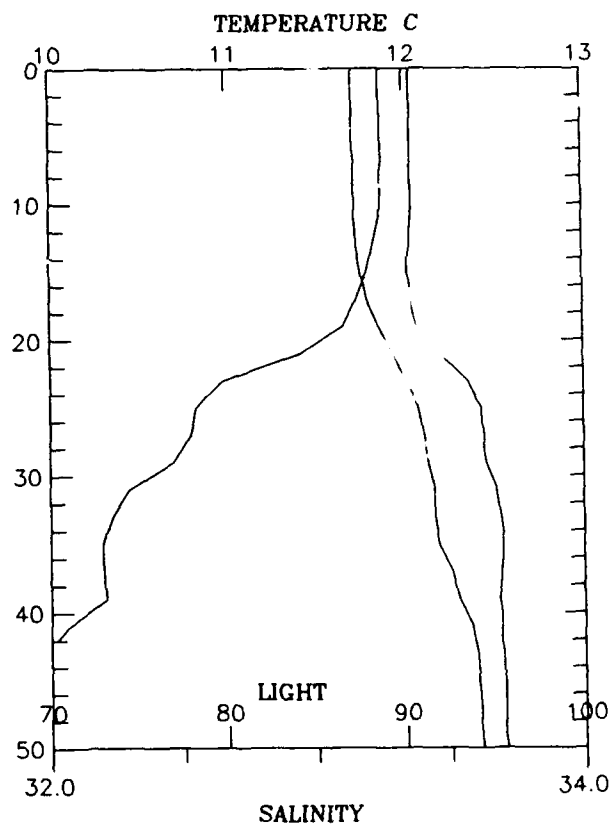
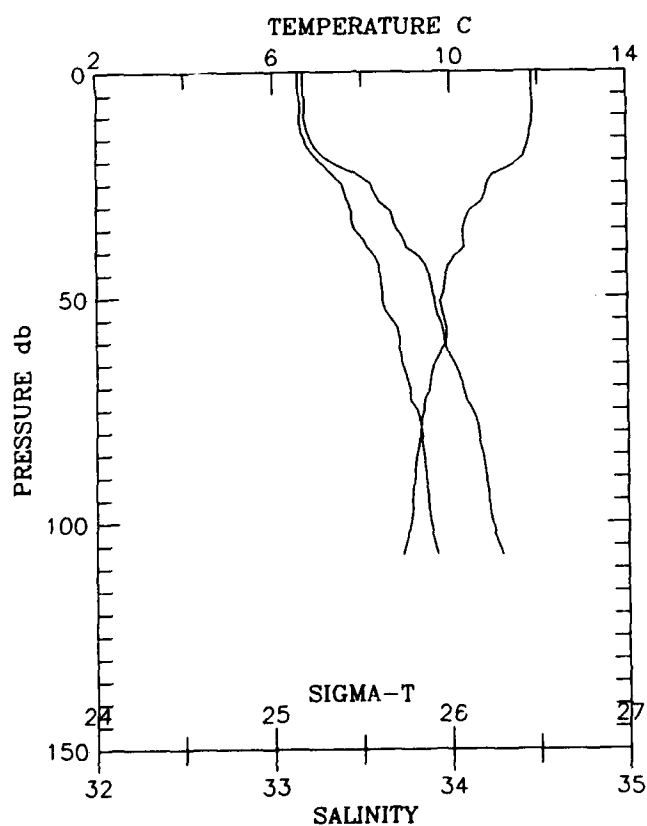
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
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0.0	11.916	33.195	25.203	0.0000	90.2
5.0	11.877	33.205	25.219	0.0111	90.2
10.0	11.815	33.223	25.244	0.0249	90.2
15.0	11.684	33.266	25.302	0.0385	90.4
20.0	11.476	33.315	25.378	0.0518	90.6
25.0	11.205	33.399	25.493	0.0646	88.0
30.0	11.031	33.455	25.568	0.0770	86.6
35.0	10.850	33.528	25.656	0.0890	85.6
40.0	10.589	33.614	25.770	0.1005	84.5
45.0	10.439	33.657	25.829	0.1116	85.4
50.0	10.353	33.677	25.859	0.1225	85.1
55.0	10.177	33.710	25.915	0.1333	83.5
60.0	10.016	33.736	25.962	0.1437	83.2
65.0	9.963	33.743	25.977	0.1540	83.0
70.0	9.929	33.750	25.988	0.1643	82.8
75.0	9.915	33.750	25.990	0.1745	82.5
80.0	9.637	33.792	26.070	0.1846	80.6
85.0	9.500	33.814	26.109	0.1944	80.0
90.0	9.345	33.845	26.159	0.2039	81.3
91.0	9.307	33.851	26.170	0.2058	81.6



Cruise W8811 Station # 96 Depth m: 117 Time: 20 NOV 1988,0728  
 Position: 39 9.80'N 123 51.30'W Depth Deck Offset: 0.00

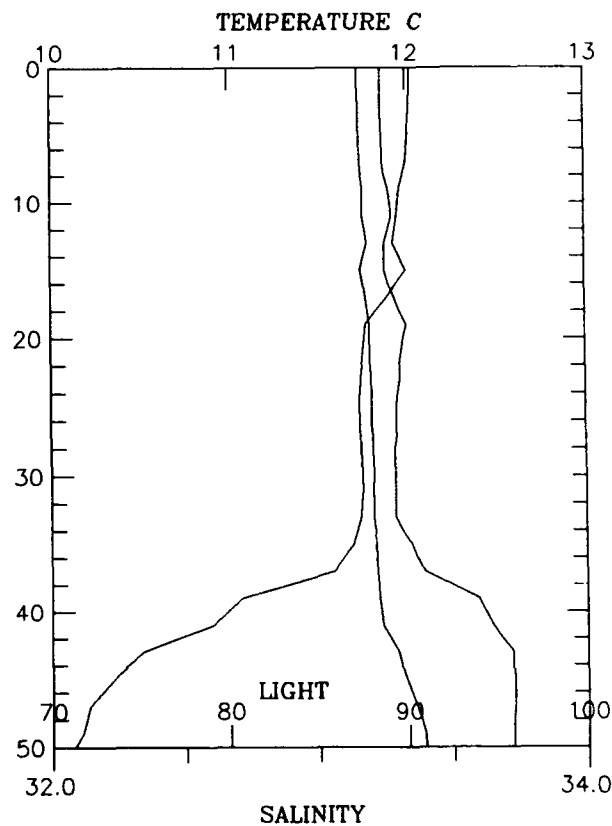
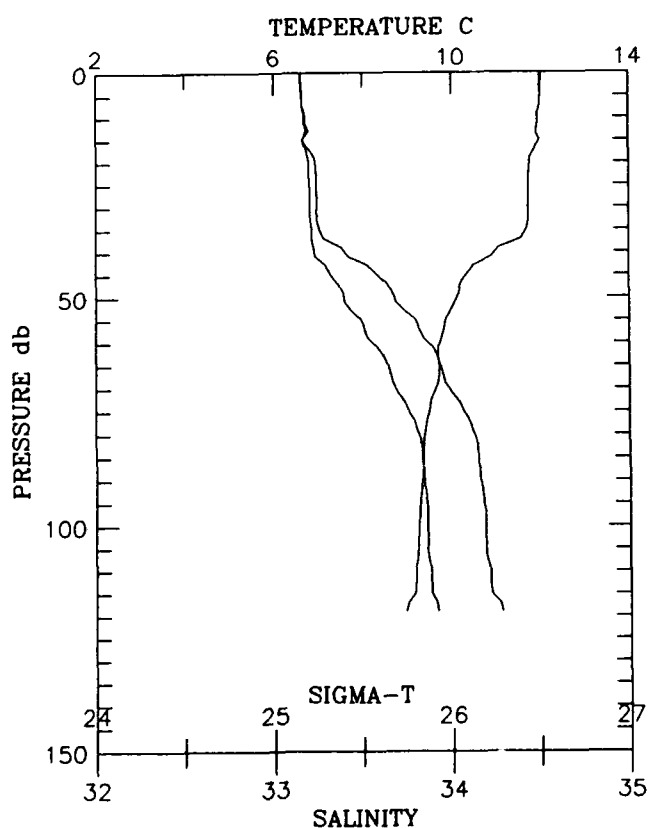
PRE SURE Interp (d- ars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNEL (%LIGHT)
0.0	11.869	33.143	25.172	0.0000	90.4
10.0	11.872	33.150	25.177	0.0253	90.4
20.0	11.542	33.264	25.327	0.0529	91.3
30.0	10.570	33.430	25.629	0.0779	94.8
40.0	10.203	33.554	25.789	0.1010	95.3
50.0	9.795	33.613	25.904	0.1225	95.6
60.0	9.876	33.709	25.966	0.1435	94.3
70.0	9.513	33.764	26.068	0.1637	92.8
80.0	9.294	33.830	26.155	0.1829	89.6
90.0	9.170	33.857	26.196	0.2017	91.2
100.0	9.073	33.883	26.232	0.2200	89.9
107.0	8.894	33.921	26.290	0.2326	89.6





Cruise W8811 Station # 97 Depth m: 127 Time: 20 NOV 1988,0825  
 Position: 39 9.20'N 123 53.80'W Depth Deck Offset: 0.00

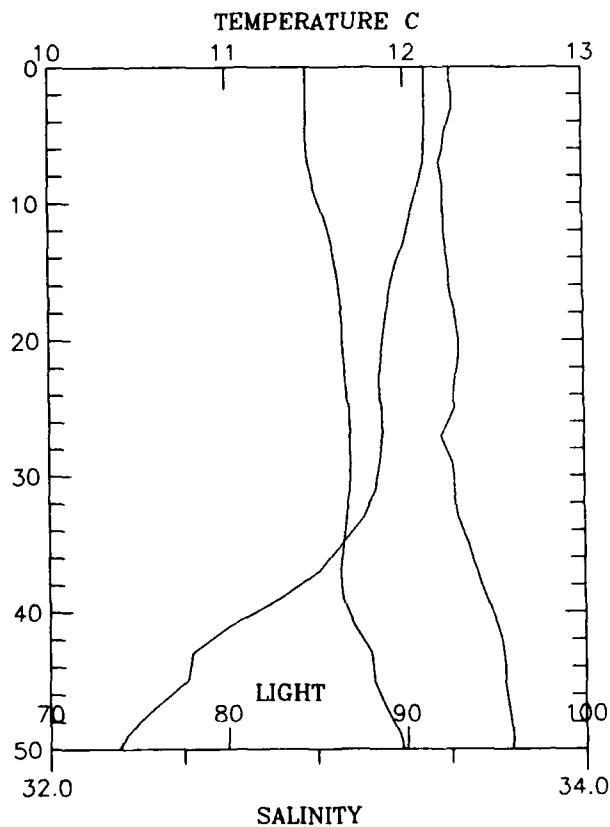
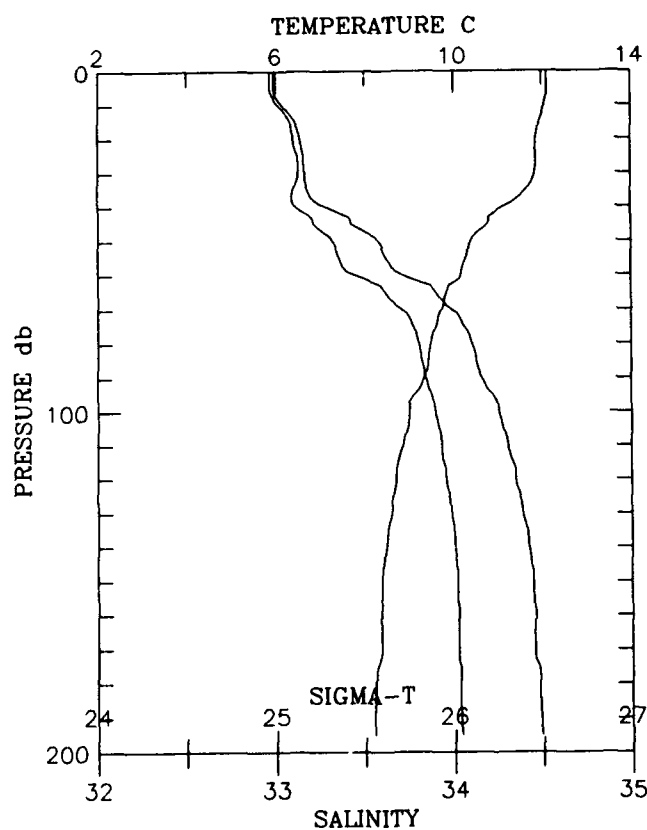
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.026	33.154	25.151	0.0000	88.6
10.0	11.955	33.171	25.178	0.0133	89.1
20.0	11.762	33.196	25.233	0.0412	89.8
30.0	11.745	33.206	25.244	0.0687	89.3
40.0	10.985	33.230	25.401	0.0958	94.3
50.0	10.123	33.393	25.677	0.1203	95.8
60.0	9.736	33.556	25.868	0.1427	95.9
70.0	9.636	33.683	25.985	0.1637	95.5
80.0	9.392	33.815	26.127	0.1835	92.7
90.0	9.322	33.841	26.159	0.2025	92.6
100.0	9.252	33.861	26.186	0.2212	92.5
110.0	9.178	33.877	26.211	0.2398	91.5
119.0	8.960	33.918	26.277	0.2562	89.8



Cruise W8811 Station # 98 Depth m: 205 Time: 20 NOV 1988,0903  
 Position: 39 9.00'N 123 56.80'W Depth Deck Offset: 0.00

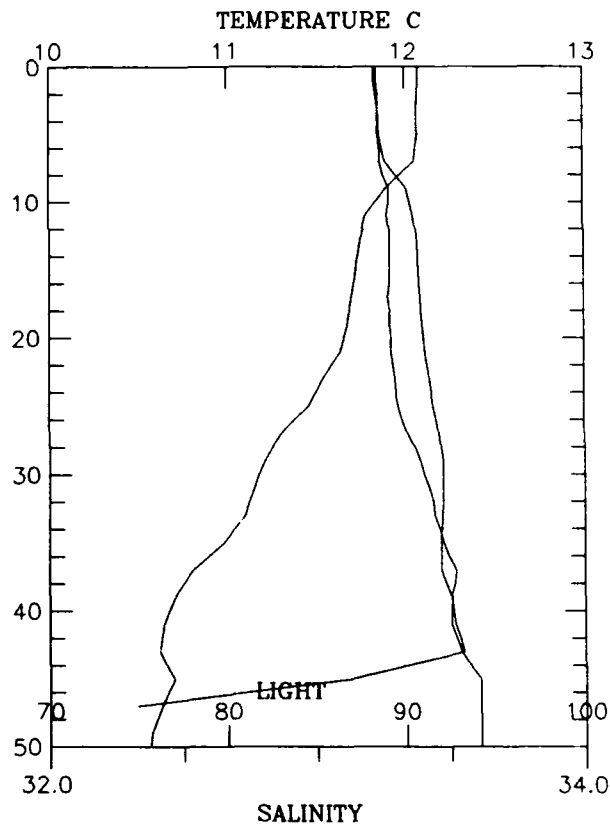
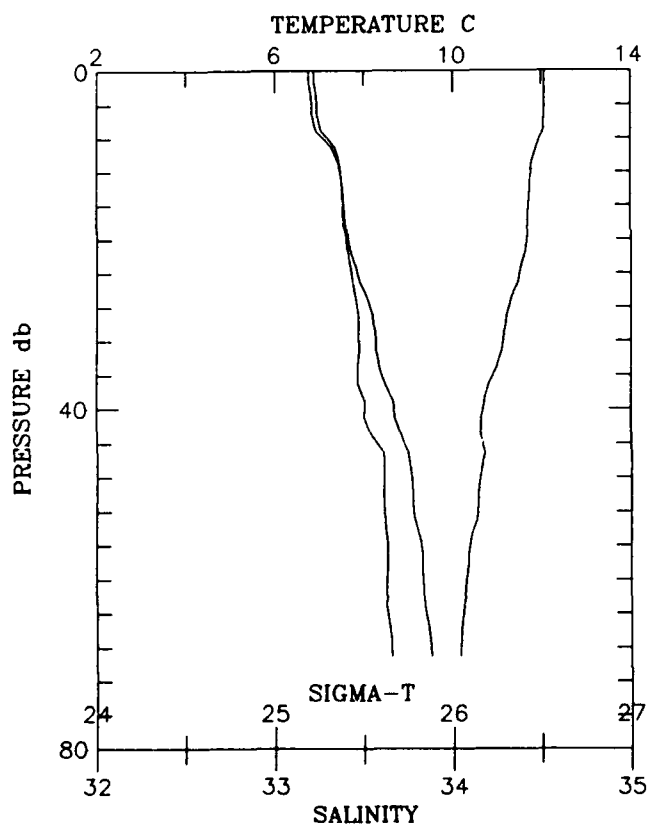
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
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0.0	12.120	32.969	24.990	0.0000	92.6
10.0	12.054	33.016	25.039	0.0268	92.2
20.0	11.875	33.101	25.138	0.0556	93.0
30.0	11.844	33.126	25.164	0.0839	92.7
40.0	11.155	33.118	25.283	0.1119	94.8
50.0	10.387	33.318	25.574	0.1376	95.9
60.0	10.167	33.448	25.712	0.1614	95.9
70.0	9.721	33.705	25.987	0.1829	94.1
80.0	9.486	33.803	26.103	0.2028	92.0
90.0	9.333	33.845	26.161	0.2219	91.6
100.0	8.991	33.895	26.254	0.2403	93.8
110.0	8.852	33.931	26.305	0.2581	93.1
120.0	8.700	33.956	26.348	0.2754	95.2
130.0	8.590	33.985	26.388	0.2923	92.5
140.0	8.472	34.005	26.421	0.3089	93.3
150.0	8.378	34.019	26.447	0.3253	93.7
160.0	8.347	34.023	26.455	0.3415	93.6
170.0	8.366	34.021	26.451	0.3577	93.6
180.0	8.237	34.036	26.482	0.3738	93.0
190.0	8.205	34.037	26.487	0.3898	92.7
195.0	8.197	34.040	26.490	0.3977	92.7



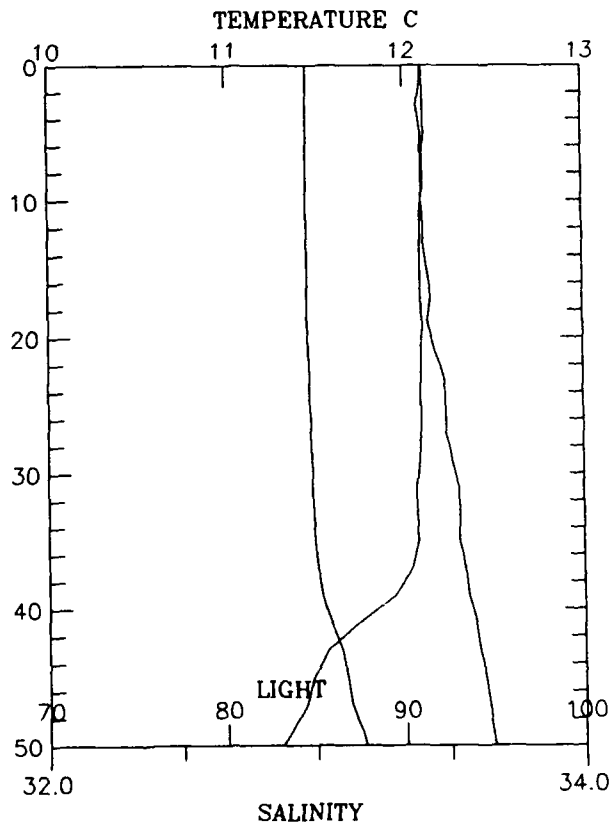
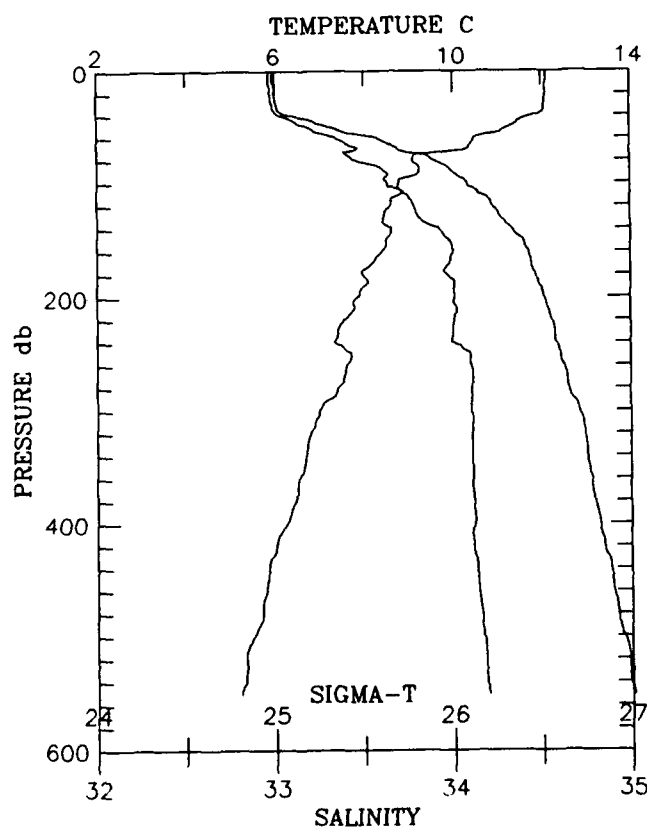
Cruise W8811 Station # 99 Depth m: 409 Time: 20 NOV 1988,0951  
 Position: 39 8.60'N 123 59.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.206	32.945	24.955	0.0000	93.1
10.0	12.193	32.947	24.959	0.0272	92.7
20.0	11.932	32.975	25.030	0.0571	93.4
30.0	11.925	32.998	25.049	0.0865	93.4
40.0	11.278	33.168	25.299	0.1148	94.9
50.0	10.757	33.328	25.517	0.1405	95.5
60.0	10.101	33.521	25.781	0.1641	95.5
80.0	9.490	33.689	26.013	0.2066	95.4
100.0	9.373	33.836	26.147	0.2457	96.2
150.0	8.516	33.940	26.364	0.3354	96.3
200.0	8.227	34.071	26.510	0.4165	96.5
250.0	7.666	34.087	26.606	0.4928	95.8
300.0	7.186	34.100	26.684	0.5656	96.2
400.0	6.374	34.093	26.788	0.7052	93.9
403.0	6.360	34.093	26.790	0.7092	93.8



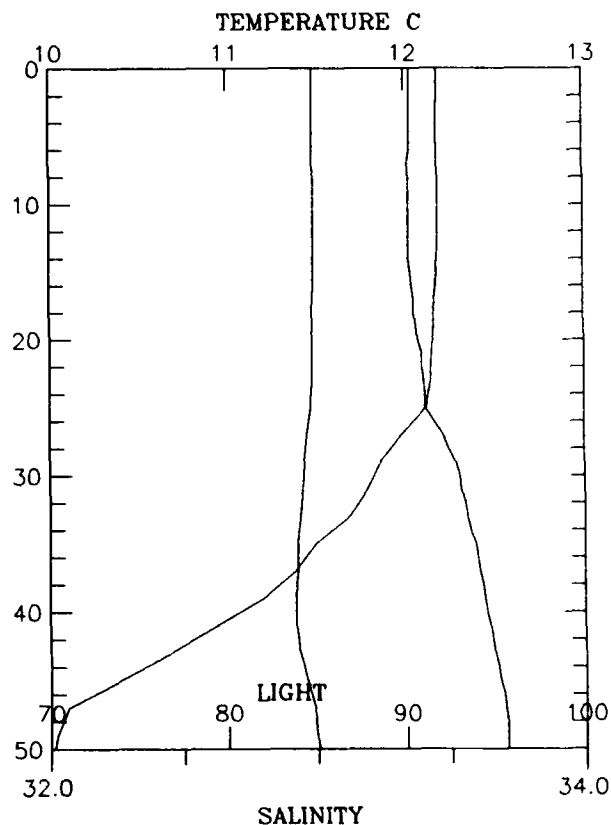
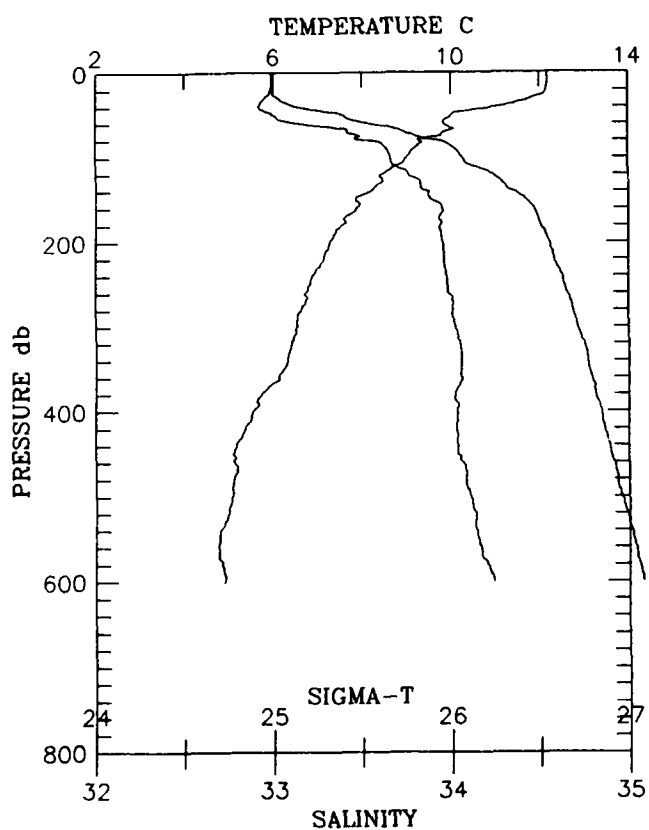
Cruise W8811 Station # 100 Depth m: 565 Time: 20 NOV 1988,1054  
 Position: 39 8.10'N 124 2.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.110	32.971	24.993	0.0000	91.0
10.0	12.099	32.968	24.993	0.0268	91.0
20.0	12.097	32.972	24.996	0.0567	91.5
30.0	12.073	32.988	25.013	0.0864	92.8
40.0	11.838	33.036	25.095	0.1159	93.7
50.0	11.303	33.180	25.304	0.1438	94.9
60.0	10.492	33.343	25.575	0.1696	95.7
80.0	9.102	33.452	25.891	0.2156	96.3
100.0	8.785	33.631	26.080	0.2564	96.3
150.0	8.498	33.981	26.399	0.3470	96.4
200.0	7.856	34.011	26.518	0.4279	96.5
250.0	7.711	34.096	26.607	0.5041	96.6
300.0	6.984	34.098	26.711	0.5764	96.2
400.0	6.244	34.117	26.824	0.7106	96.5
500.0	5.490	34.170	26.960	0.8340	95.7
551.0	5.217	34.194	27.011	0.8924	94.8



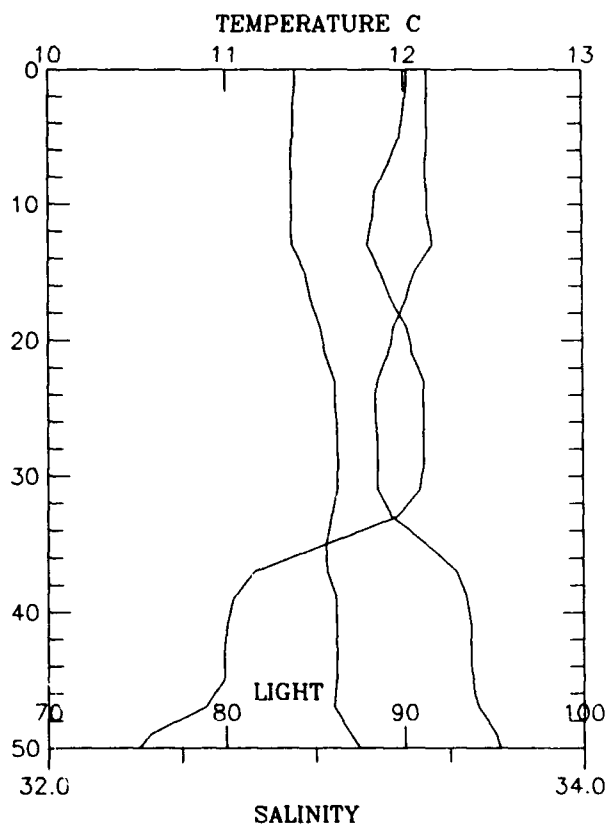
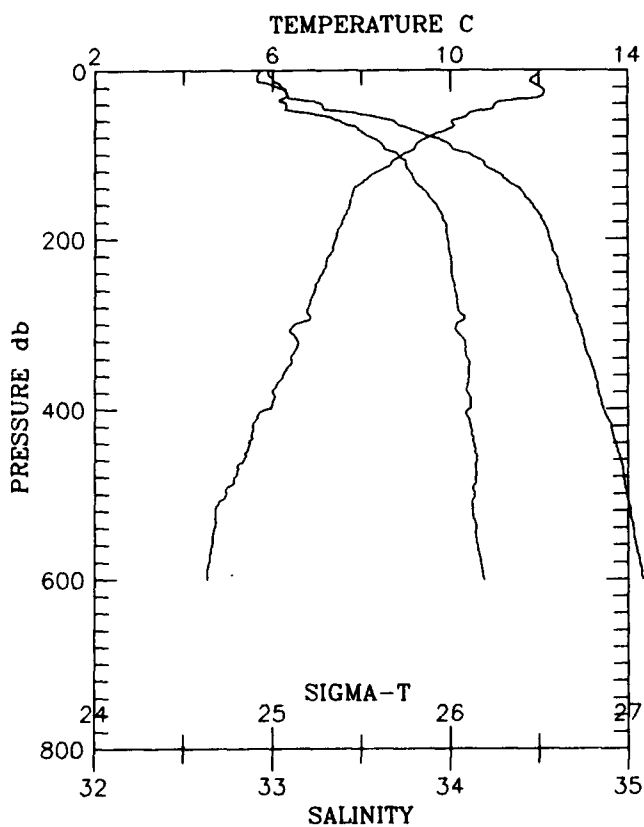
Cruise W8811 Station # 101 Depth m: 1005 Time: 20 NOV 1988,1202  
 Position: 39 7.40'N 124 8.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.183	32.991	24.995	0.0000	90.3
10.0	12.186	32.991	24.995	0.0268	90.2
20.0	12.152	32.984	24.996	0.0566	90.7
30.0	11.822	32.951	25.032	0.0864	93.0
40.0	11.068	32.920	25.144	0.1155	94.5
50.0	10.019	33.005	25.392	0.1426	95.6
60.0	9.847	33.160	25.542	0.1682	95.9
80.0	9.283	33.525	25.919	0.2139	96.0
100.0	9.026	33.661	26.066	0.2544	95.9
150.0	7.851	33.891	26.425	0.3449	96.4
200.0	7.266	33.954	26.558	0.4237	96.5
250.0	6.812	33.981	26.642	0.4982	96.5
300.0	6.531	34.025	26.714	0.5690	96.6
400.0	5.524	34.035	26.848	0.7016	96.6
500.0	5.070	34.108	26.960	0.8233	96.6
600.0	4.893	34.237	27.082	0.9341	96.6
601.0	4.877	34.238	27.085	0.9352	96.6



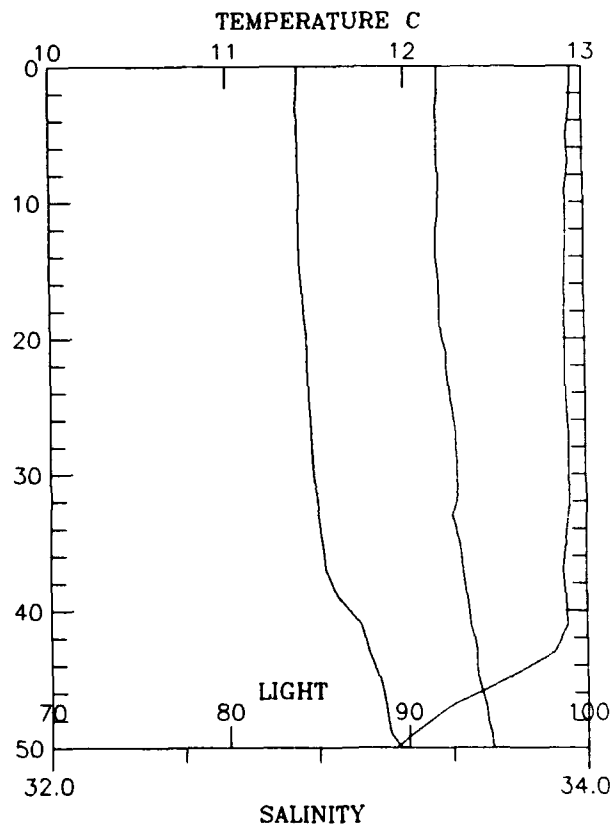
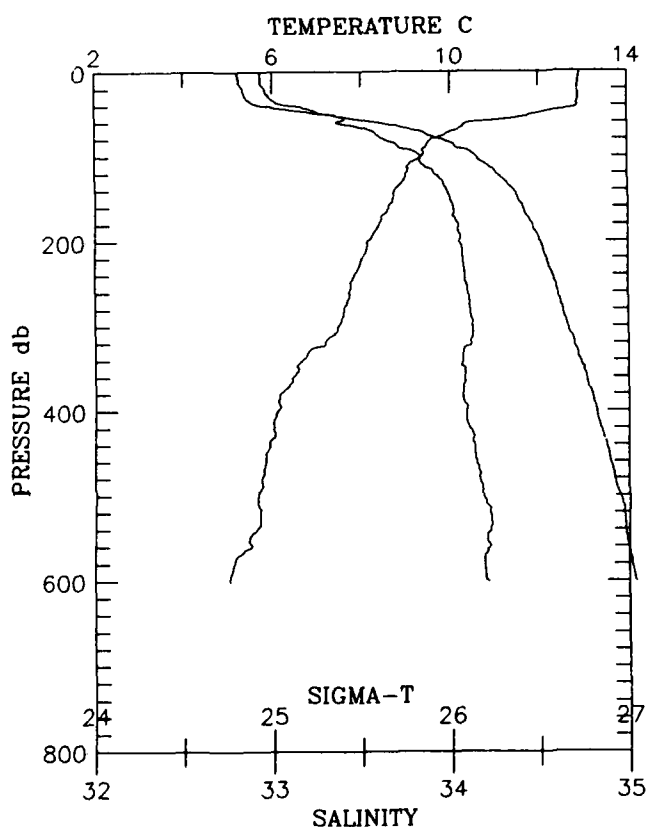
Cruise W8811 Station # 102 Depth m: 1925 Time: 20 NOV 1988,1315  
 Position: 39 6.50'N 124 15.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.017	32.927	24.976	0.0000	91.3
10.0	11.832	32.912	24.999	0.0269	91.3
20.0	12.031	33.030	25.054	0.0565	89.3
30.0	12.097	33.084	25.084	0.0856	88.5
40.0	11.020	33.079	25.276	0.1138	93.6
50.0	10.506	33.162	25.431	0.1407	95.3
60.0	10.059	33.368	25.668	0.1652	95.8
80.0	9.543	33.552	25.897	0.2103	96.0
100.0	8.957	33.702	26.109	0.2510	96.2
150.0	7.786	33.879	26.425	0.3399	96.2
200.0	7.424	33.985	26.560	0.4184	96.4
250.0	7.010	34.018	26.644	0.4928	96.6
300.0	6.506	34.035	26.725	0.5634	96.6
400.0	5.890	34.108	26.862	0.6948	96.6
500.0	4.962	34.137	26.996	0.8129	96.6
600.0	4.534	34.190	27.085	0.9221	96.6
601.0	4.534	34.190	27.085	0.9232	96.6



Cruise W8811 Station # 103 Depth m: 3693 Time: 20 NOV 1988,1901  
 Position: 38 8.80'N 124 9.80'W Depth Deck Offset: 0.00

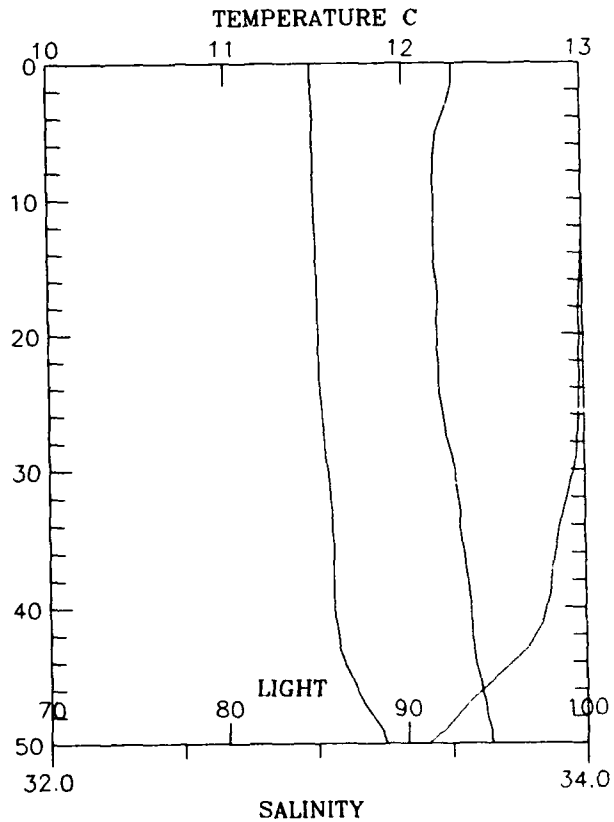
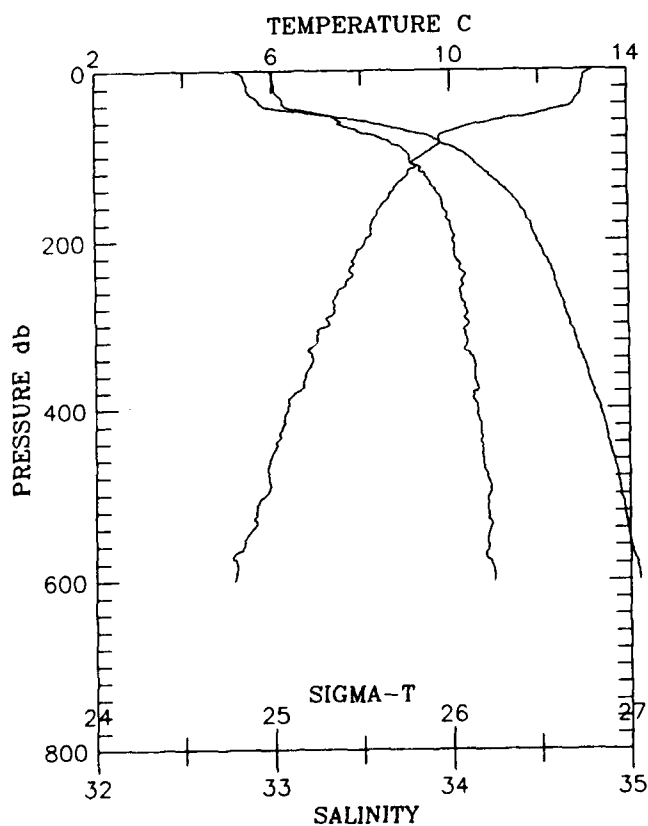
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.933	32.935	24.807	0.0000	91.9
10.0	12.899	32.935	24.814	0.0284	91.8
20.0	12.886	32.960	24.836	0.0599	92.0
30.0	12.905	32.986	24.852	0.0912	92.8
40.0	12.887	33.115	24.955	0.1221	93.4
50.0	11.929	33.305	25.287	0.1509	94.7
60.0	10.498	33.362	25.589	0.1766	95.4
80.0	9.584	33.632	25.953	0.2212	95.9
100.0	9.361	33.834	26.148	0.2609	96.1
150.0	8.704	33.998	26.380	0.3499	96.2
200.0	8.134	34.049	26.507	0.4314	96.4
250.0	7.753	34.090	26.596	0.5083	96.5
300.0	7.470	34.124	26.663	0.5820	96.5
400.0	6.083	34.085	26.819	0.7185	96.5
500.0	5.640	34.178	26.948	0.8425	96.5
600.0	5.028	34.204	27.041	0.9570	96.5
601.0	5.041	34.211	27.045	0.9581	96.5



Cruise W8811 Station # 104 Depth m: 3600 Time: 20 NOV 1988,2021  
 Position: 38 12.70'N 124 5.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
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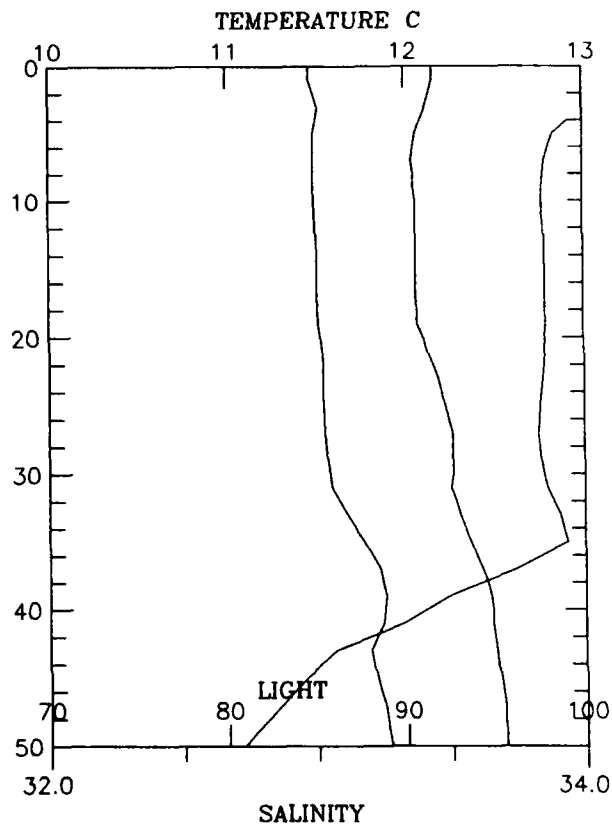
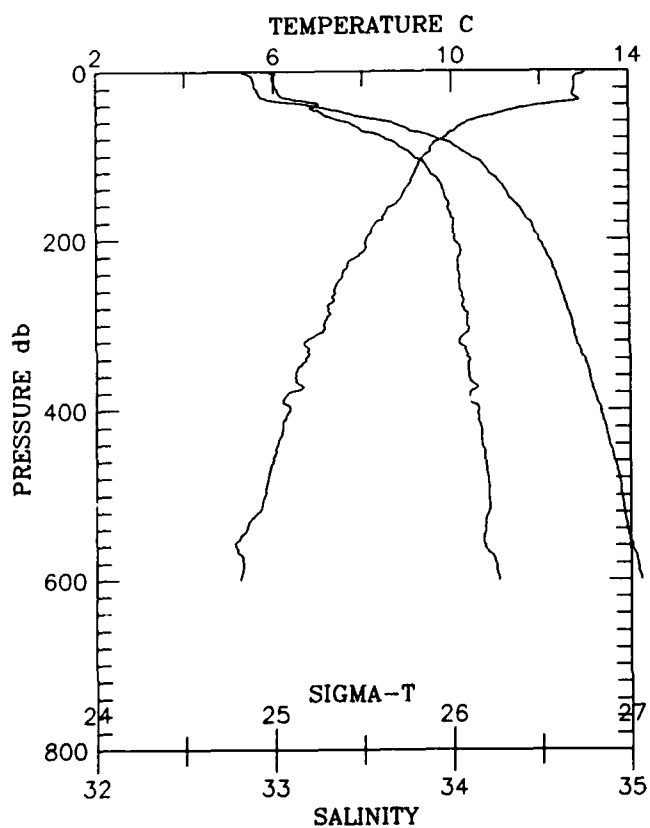
0.0	13.206	32.990	24.796	0.0000	92.8
10.0	13.014	32.997	24.840	0.0283	91.7
20.0	12.976	33.010	24.857	0.0595	91.8
30.0	12.936	33.042	24.890	0.0905	92.7
40.0	12.778	33.064	24.938	0.1211	93.6
50.0	12.116	33.252	25.210	0.1505	94.7
60.0	10.927	33.377	25.525	0.1768	95.5
80.0	9.759	33.612	25.909	0.2227	96.0
100.0	9.399	33.771	26.092	0.2634	96.1
150.0	8.617	33.945	26.353	0.3549	96.3
200.0	8.078	34.012	26.487	0.4371	96.4
250.0	7.628	34.062	26.592	0.5142	96.5
300.0	7.257	34.101	26.675	0.5873	96.5
400.0	6.317	34.148	26.839	0.7228	96.6
500.0	5.827	34.212	26.952	0.8455	96.6
600.0	5.106	34.234	27.056	0.9590	96.6
601.0	5.092	34.233	27.056	0.9601	96.6





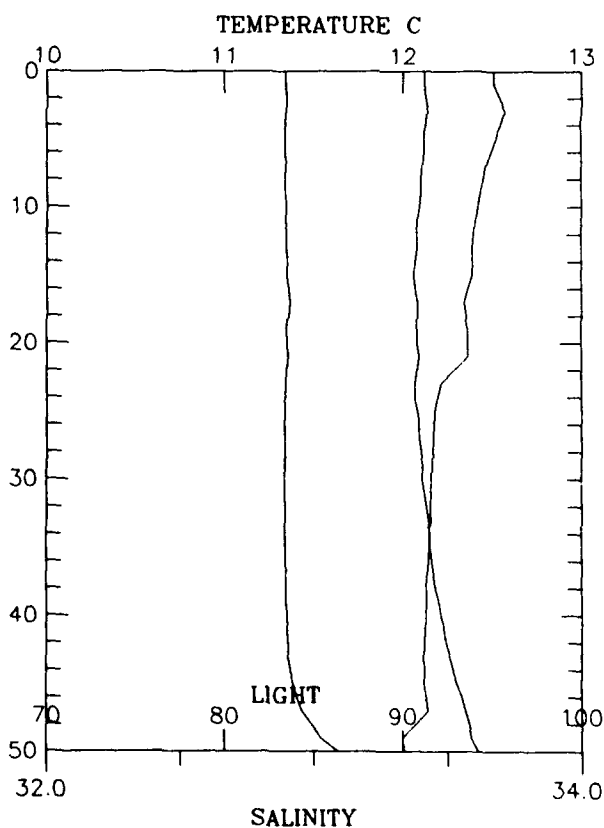
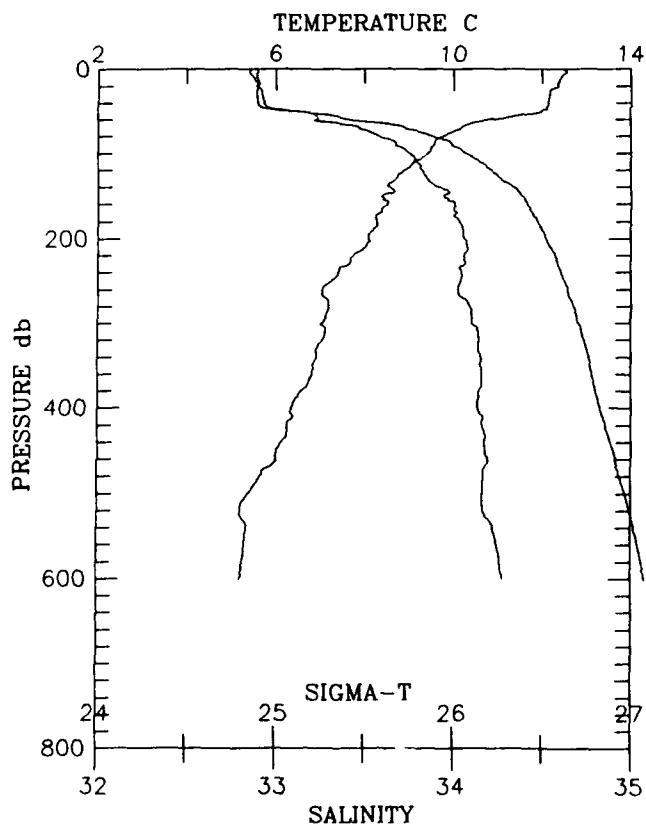
Cruise W8811 Station # 105 Depth m: 3513 Time: 20 NOV 1988,2142  
 Position: 38 16.00'N 124 0.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	13.013	32.979	24.826	0.0000	91.6
10.0	12.771	32.995	24.886	0.0279	90.6
20.0	12.783	33.017	24.900	0.0587	91.0
30.0	12.773	33.049	24.927	0.0894	92.6
40.0	12.112	33.250	25.209	0.1188	94.8
50.0	11.085	33.271	25.414	0.1457	95.5
60.0	10.374	33.409	25.646	0.1706	95.8
80.0	9.825	33.626	25.909	0.2155	96.1
100.0	9.427	33.781	26.096	0.2560	96.2
150.0	8.880	33.964	26.326	0.3473	96.3
200.0	8.069	34.015	26.490	0.4300	96.5
250.0	7.430	34.041	26.604	0.5068	96.6
300.0	7.134	34.086	26.680	0.5795	96.6
400.0	6.346	34.149	26.836	0.7149	96.6
500.0	5.780	34.204	26.951	0.8376	96.6
600.0	5.232	34.259	27.061	0.9511	96.6
601.0	5.231	34.260	27.062	0.9522	96.6



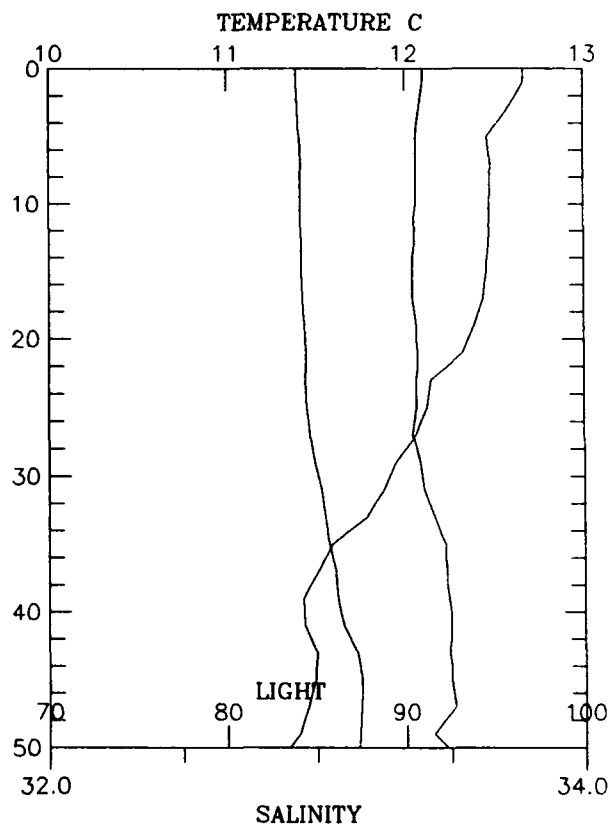
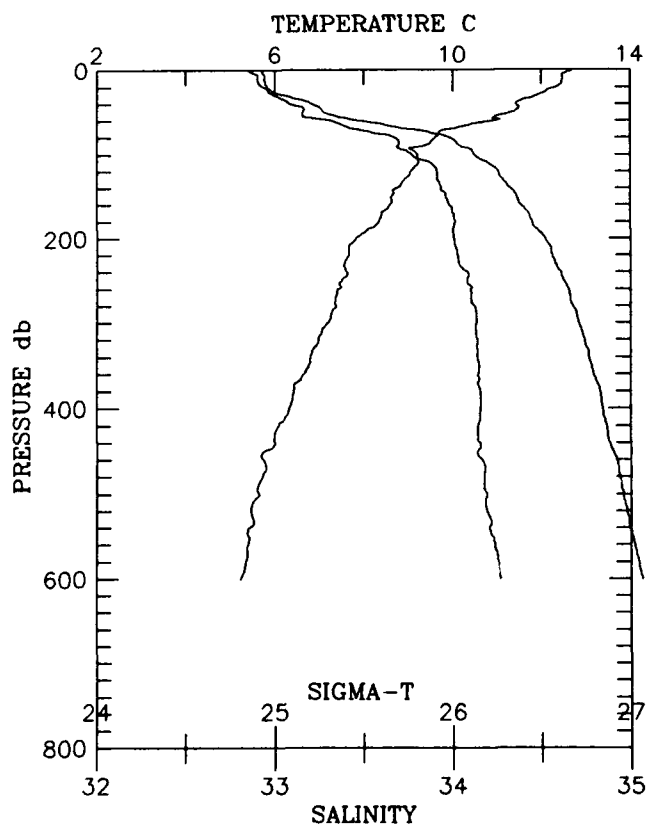
Cruise W8811 Station # 106 Depth m: 2690 Time: 20 NOV 1988,2258  
 Position: 38 19.50'N 123 55.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.507	32.897	24.860	0.0000	91.2
10.0	12.419	32.895	24.876	0.0280	90.9
20.0	12.362	32.901	24.892	0.0588	90.8
30.0	12.160	32.891	24.922	0.0894	91.1
40.0	12.125	32.899	24.935	0.1199	92.1
50.0	12.003	33.091	25.107	0.1500	94.2
60.0	10.899	33.231	25.417	0.1771	95.4
80.0	9.760	33.581	25.885	0.2234	96.1
100.0	9.429	33.746	26.068	0.2643	96.2
150.0	8.403	33.945	26.385	0.3552	96.3
200.0	8.097	34.065	26.525	0.4360	96.5
250.0	7.253	34.040	26.628	0.5114	96.6
300.0	7.047	34.108	26.710	0.5829	96.5
400.0	6.351	34.138	26.826	0.7170	96.6
500.0	5.396	34.167	26.969	0.8398	96.6
600.0	5.214	34.281	27.081	0.9509	96.6
601.0	5.198	34.281	27.082	0.9519	96.6



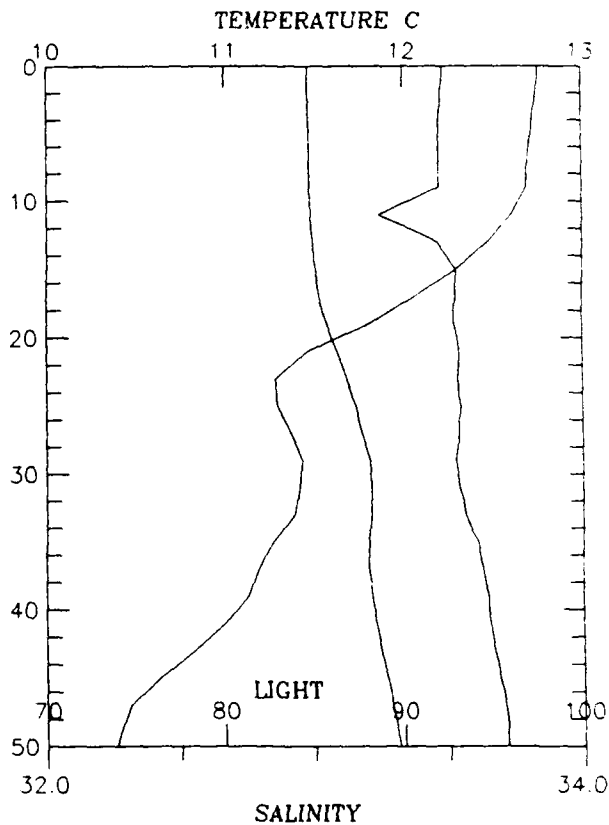
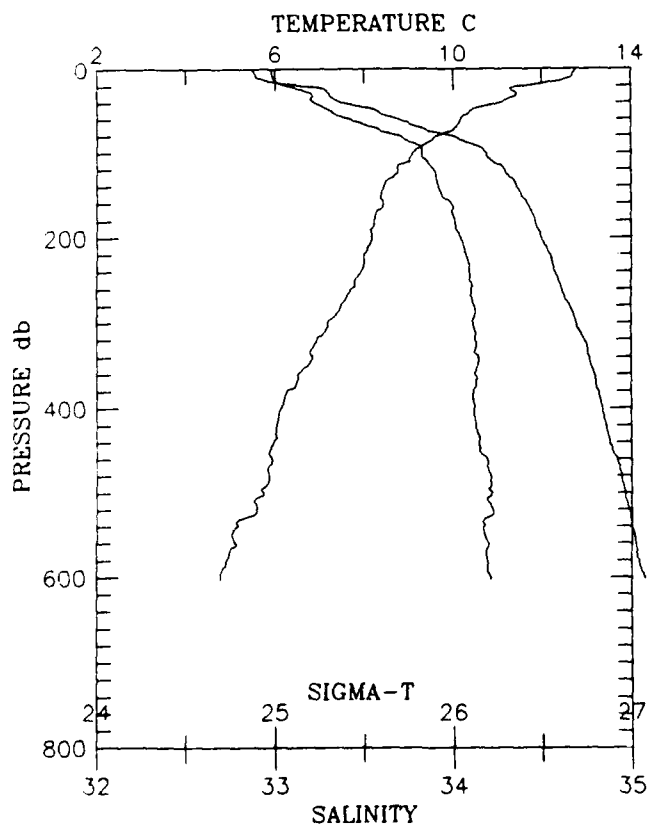
Cruise W8811 Station # 107 Depth m: 1900 Time: 21 NOV 1988,0013  
 Position: 38 22.90'N 123 50.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.666	32.928	24.854	0.0000	91.0
10.0	12.474	32.941	24.901	0.0277	90.6
20.0	12.352	32.959	24.938	0.0583	90.6
30.0	11.908	33.005	25.058	0.0882	90.9
40.0	11.427	33.088	25.211	0.1167	92.5
50.0	11.344	33.156	25.278	0.1441	92.3
60.0	10.941	33.318	25.477	0.1705	95.5
80.0	9.608	33.674	25.982	0.2159	94.9
100.0	9.203	33.767	26.121	0.2556	96.2
150.0	8.627	33.961	26.363	0.3455	96.2
200.0	7.816	34.006	26.520	0.4275	96.5
250.0	7.499	34.081	26.625	0.5033	96.5
300.0	7.189	34.133	26.710	0.5747	96.6
400.0	6.323	34.157	26.845	0.7078	96.6
500.0	5.643	34.192	26.958	0.8301	96.6
600.0	5.228	34.266	27.067	0.9429	96.6
601.0	5.227	34.266	27.067	0.9440	96.6



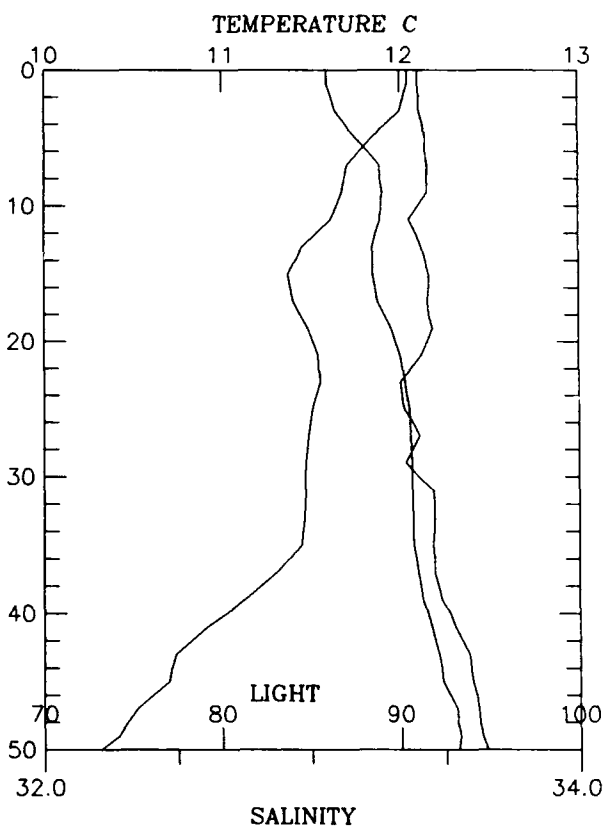
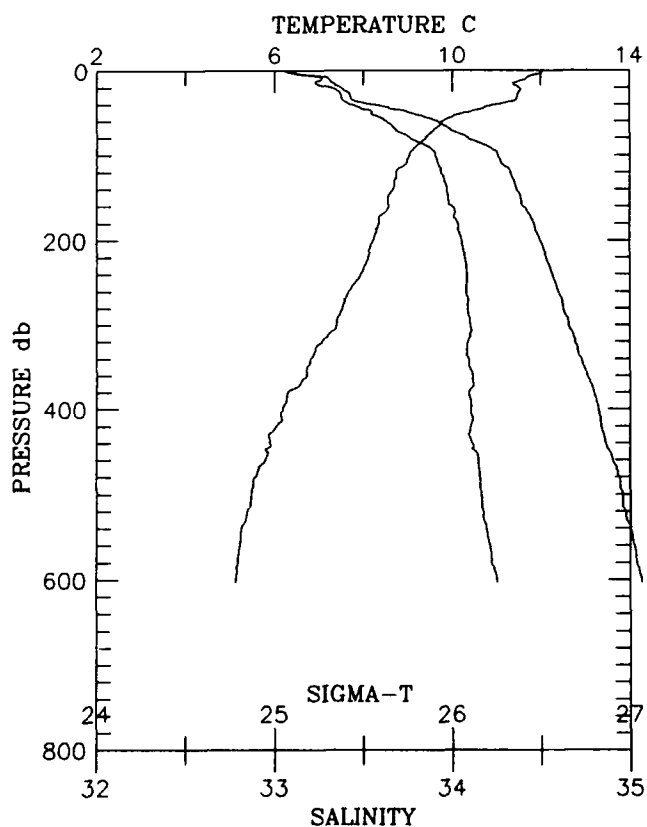
Cruise W8811 Station # 108 Depth m: 1480 Time: 21 NOV 1988,0150  
 Position: 38 26.20'N 123 46.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.756	32.978	24.875	0.0000	92.2
10.0	12.646	32.986	24.903	0.0277	90.3
20.0	11.635	33.067	25.156	0.0575	93.0
30.0	11.425	33.209	25.305	0.0848	93.0
40.0	11.063	33.221	25.380	0.1114	94.7
50.0	10.387	33.313	25.570	0.1367	95.7
60.0	10.168	33.417	25.688	0.1606	95.7
80.0	9.636	33.695	25.994	0.2048	96.0
100.0	9.111	33.823	26.180	0.2436	96.1
150.0	8.375	33.936	26.382	0.3320	95.9
200.0	8.167	34.037	26.493	0.4134	95.7
250.0	7.786	34.092	26.593	0.4905	96.4
300.0	7.188	34.111	26.692	0.5634	96.6
400.0	6.130	34.116	26.838	0.6971	96.6
500.0	5.744	34.215	26.964	0.8196	96.6
600.0	4.778	34.208	27.073	0.9318	96.6
603.0	4.778	34.213	27.077	0.9350	96.6



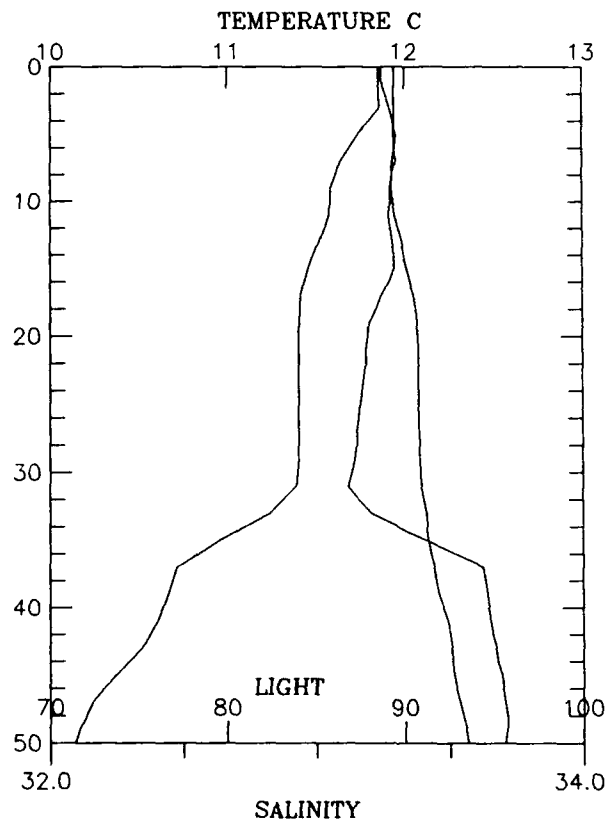
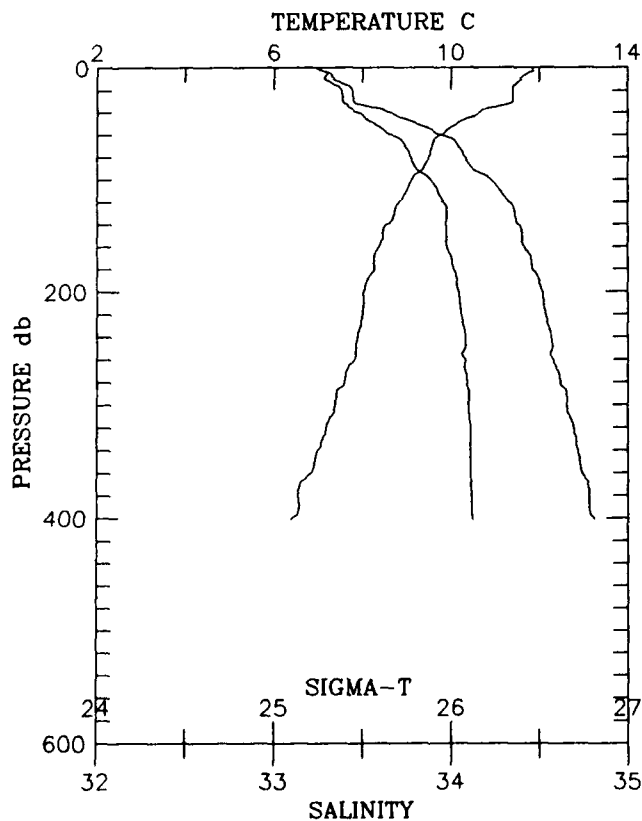
Cruise W8811 Station # 109 Depth m: 845 Time: 21 NOV 1988,0252  
 Position: 38 29.10'N 123 42.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.042	33.061	25.076	0.0000	91.0
10.0	11.646	33.262	25.306	0.0250	91.0
20.0	11.510	33.316	25.373	0.0516	91.5
30.0	11.469	33.376	25.427	0.0775	91.0
40.0	11.019	33.431	25.551	0.1030	92.7
50.0	10.314	33.546	25.764	0.1265	94.8
60.0	9.787	33.629	25.918	0.1483	95.9
80.0	9.391	33.763	26.087	0.1890	96.0
100.0	9.029	33.904	26.256	0.2262	96.0
150.0	8.549	33.977	26.388	0.3129	96.0
200.0	8.220	34.053	26.497	0.3946	96.2
250.0	7.788	34.080	26.583	0.4721	96.2
300.0	7.391	34.102	26.657	0.5459	96.6
400.0	6.177	34.104	26.822	0.6825	96.5
500.0	5.468	34.162	26.956	0.8061	95.9
600.0	5.130	34.251	27.066	0.9189	96.3
603.0	5.122	34.252	27.069	0.9221	96.2



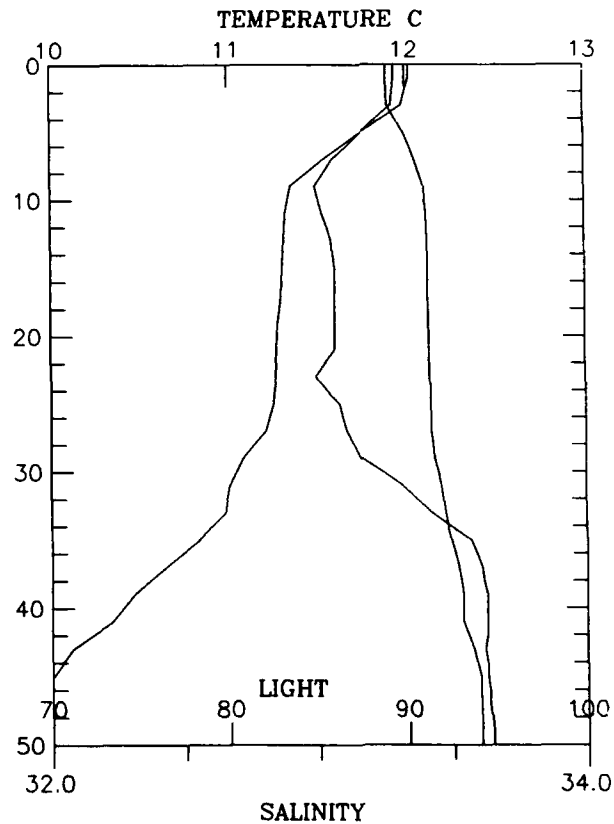
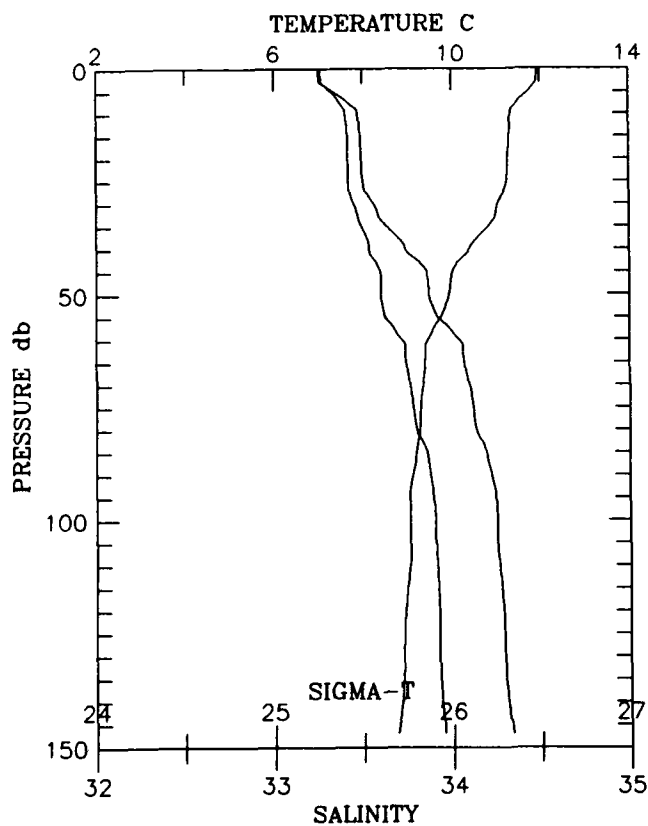
Cruise W8811 Station # 110 Depth m: 409 Time: 21 NOV 1988,0351  
 Position: 38 31.00'N 123 40.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.855	33.245	25.254	0.0000	89.4
10.0	11.581	33.290	25.339	0.0241	89.2
20.0	11.403	33.381	25.443	0.0501	87.9
30.0	11.396	33.391	25.452	0.0757	87.0
40.0	10.634	33.476	25.653	0.1002	94.7
50.0	10.141	33.568	25.810	0.1231	95.6
60.0	9.762	33.662	25.948	0.1446	95.6
80.0	9.487	33.772	26.079	0.1846	95.3
100.0	9.104	33.883	26.227	0.2228	95.9
150.0	8.447	33.974	26.401	0.3092	95.7
200.0	8.023	34.043	26.519	0.3901	95.9
250.0	7.847	34.079	26.574	0.4672	96.2
300.0	7.384	34.100	26.657	0.5414	95.8
400.0	6.402	34.122	26.808	0.6792	95.9
401.0	6.373	34.123	26.812	0.6805	95.9



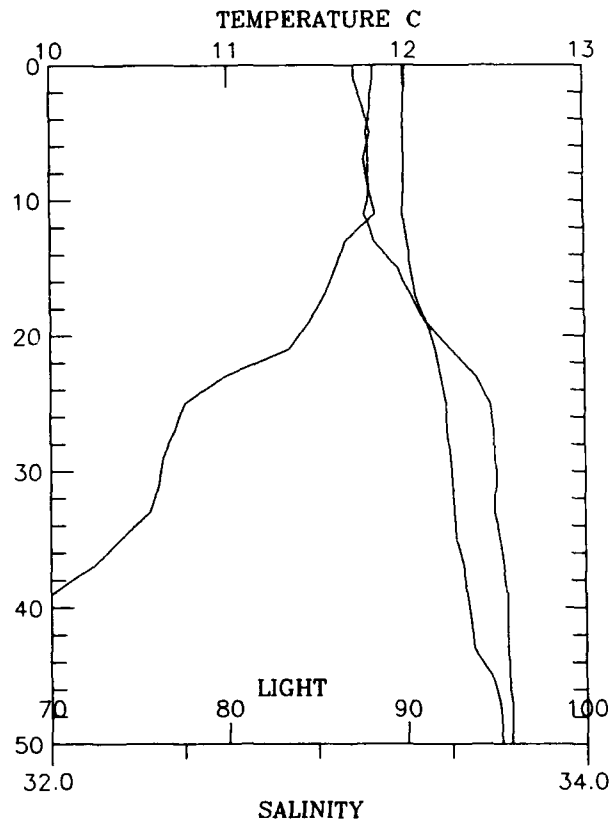
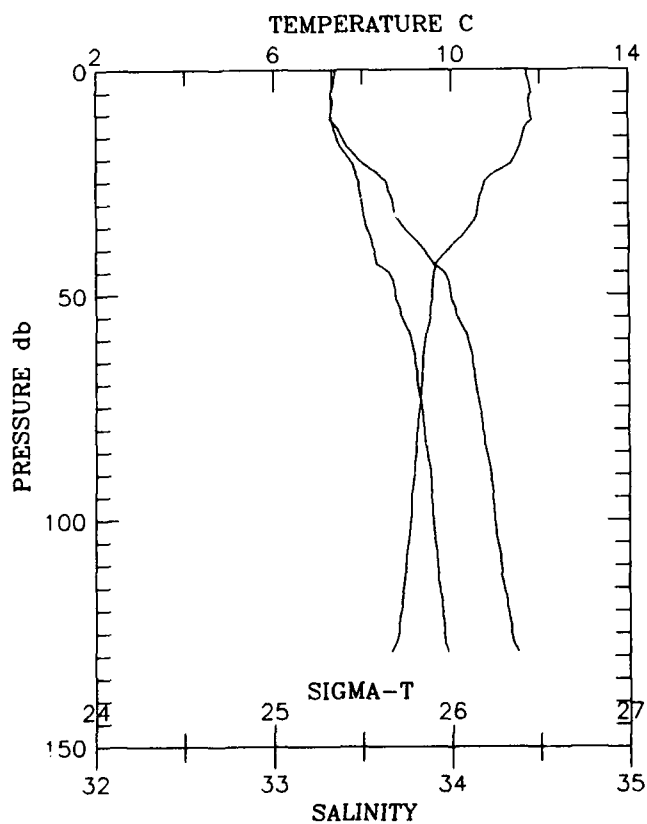
Cruise W8811 Station # 111 Depth m: 159 Time: 21 NOV 1988,0449  
 Position: 38 33.30'N 123 36.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.938	33.262	25.251	0.0000	90.2
10.0	11.337	33.404	25.473	0.0237	85.1
20.0	11.274	33.417	25.494	0.0489	86.0
30.0	11.041	33.448	25.560	0.0738	88.6
40.0	10.399	33.536	25.741	0.0975	94.4
50.0	9.939	33.602	25.871	0.1194	94.7
60.0	9.467	33.718	26.040	0.1404	95.9
70.0	9.335	33.762	26.095	0.1601	96.0
80.0	9.267	33.800	26.136	0.1793	95.9
90.0	9.115	33.878	26.222	0.1980	95.1
100.0	9.047	33.903	26.252	0.2161	93.6
110.0	9.027	33.910	26.261	0.2341	92.8
120.0	8.933	33.923	26.286	0.2519	92.5
130.0	8.900	33.927	26.294	0.2696	92.8
140.0	8.853	33.938	26.310	0.2872	92.7
147.0	8.757	33.951	26.335	0.2994	91.9



Cruise W8811 Station # 112 Depth m: 136 Time: 21 NOV 1988,0534  
 Position: 38 35.40'N 123 33.70'W Depth Deck Offset: 0.00

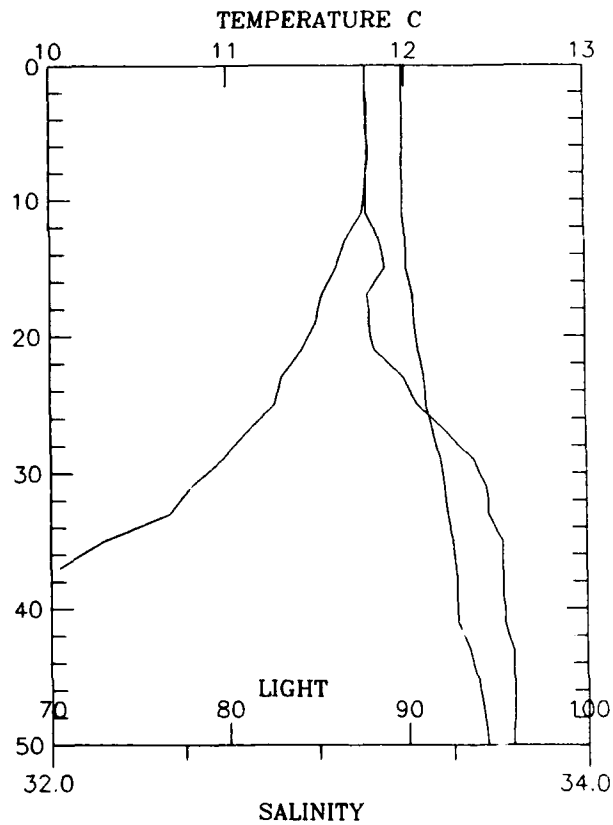
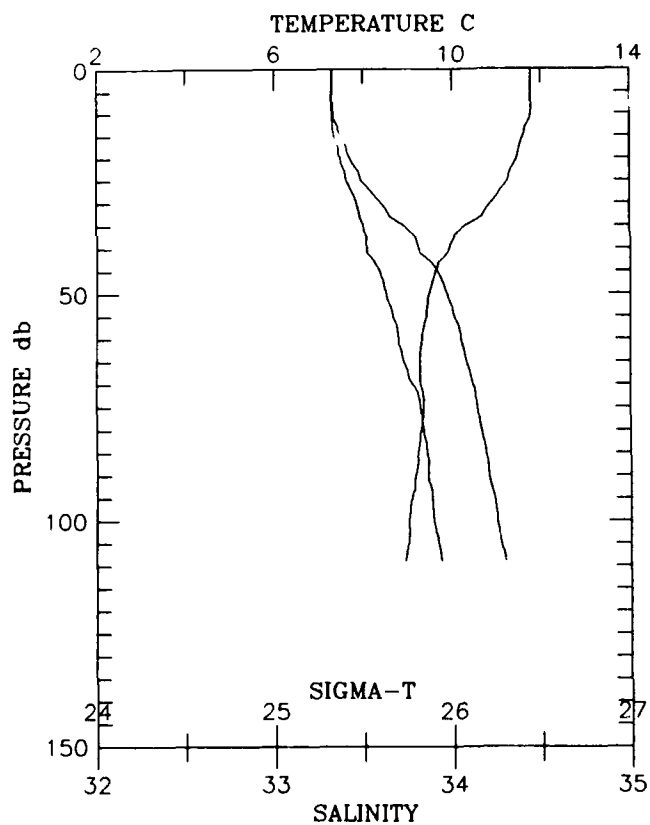
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.715	33.329	25.345	0.0000	88.2
10.0	11.813	33.326	25.324	0.0239	87.9
20.0	11.399	33.426	25.478	0.0500	91.8
30.0	10.618	33.499	25.675	0.0740	95.0
40.0	9.922	33.563	25.844	0.0968	95.6
50.0	9.569	33.685	25.997	0.1177	95.8
60.0	9.403	33.774	26.094	0.1377	95.5
70.0	9.320	33.810	26.135	0.1569	95.4
80.0	9.237	33.847	26.178	0.1758	94.8
90.0	9.142	33.879	26.218	0.1943	95.4
100.0	9.073	33.896	26.242	0.2125	91.4
110.0	8.965	33.919	26.277	0.2305	88.5
120.0	8.852	33.945	26.316	0.2481	91.6
129.0	8.633	33.975	26.374	0.2636	90.4





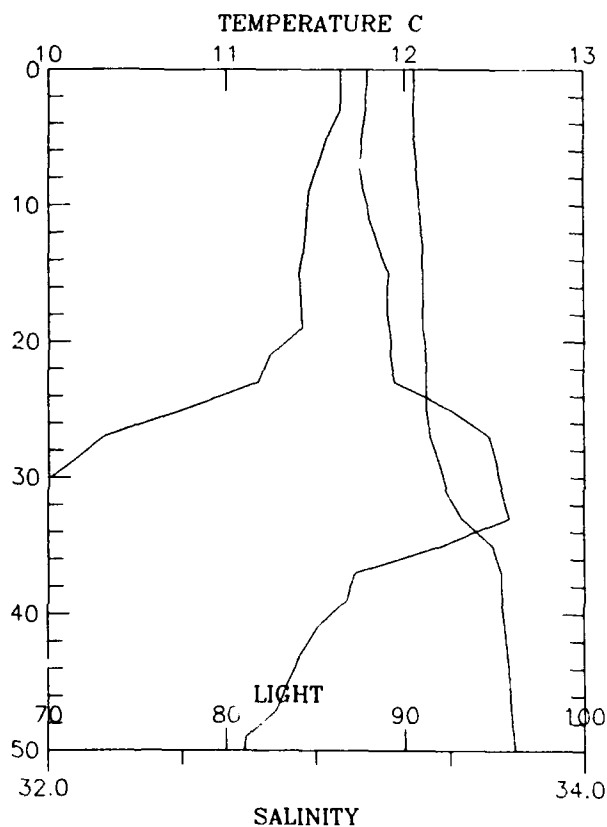
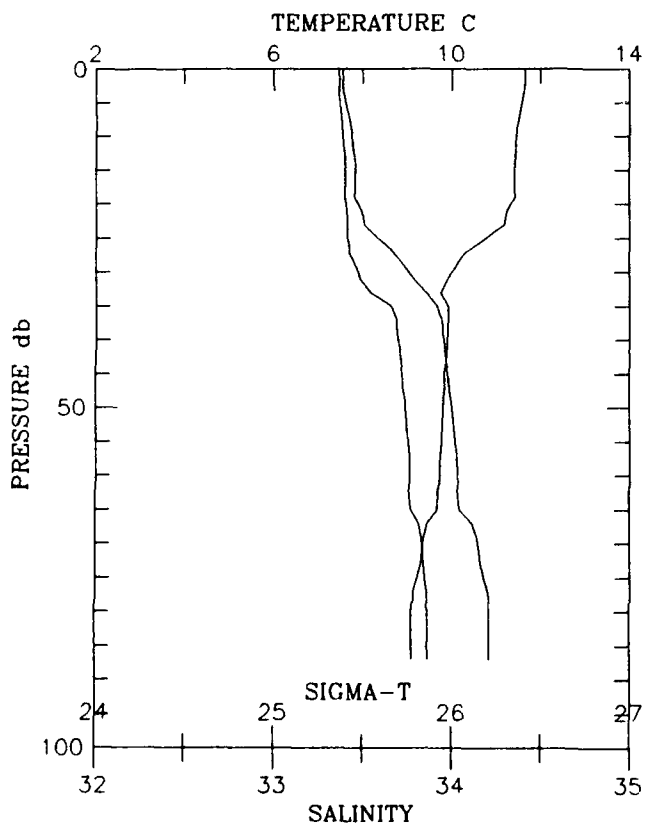
Cruise W8811 Station # 113 Depth m: 119 Time: 21 NOV 1988,0607  
 Position: 38 36.60'N 123 32.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.782	33.323	25.328	0.0000	87.8
10.0	11.768	33.323	25.331	0.0080	87.8
20.0	11.454	33.370	25.425	0.0342	88.0
30.0	10.874	33.463	25.602	0.0592	94.0
40.0	9.913	33.517	25.809	0.0822	95.4
50.0	9.472	33.626	25.967	0.1034	95.8
60.0	9.304	33.694	26.047	0.1236	95.8
70.0	9.285	33.777	26.115	0.1432	95.3
80.0	9.285	33.835	26.160	0.1623	95.2
90.0	9.152	33.859	26.201	0.1809	91.8
100.0	9.010	33.893	26.250	0.1992	89.5
109.0	8.933	33.934	26.294	0.2152	90.7



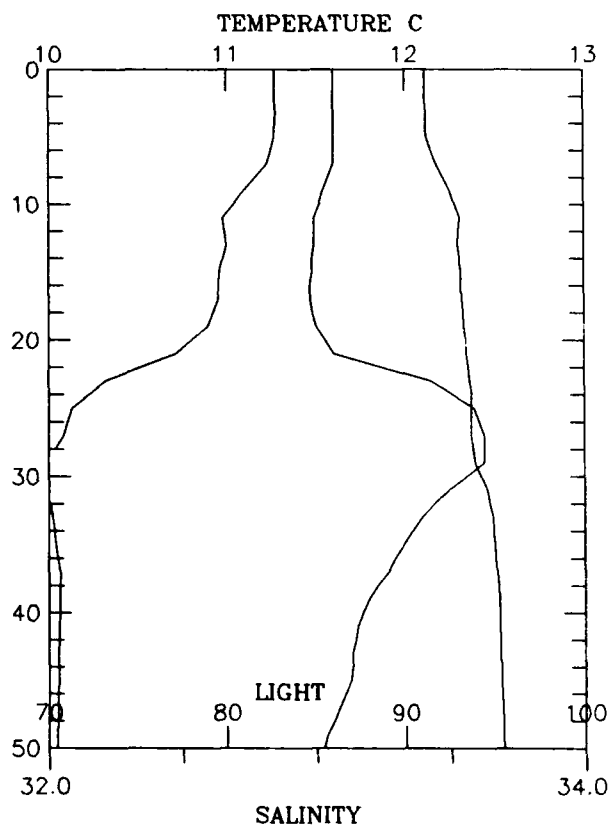
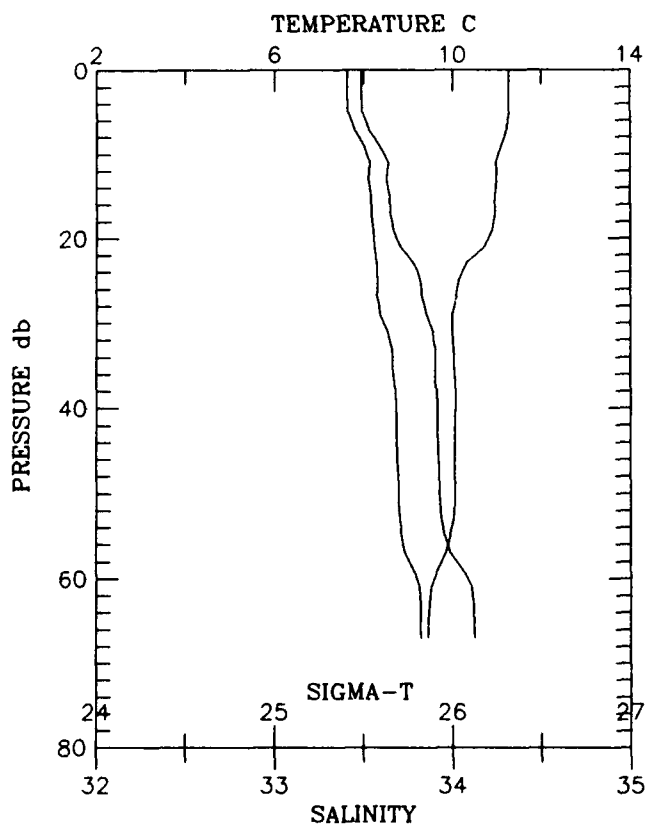
Cruise W8811 Station # 114 Depth m: 95 Time: 21 NOV 1988,0639  
 Position: 38 38.50'N 123 29.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.643	33.369	25.389	0.0000	87.9
5.0	11.568	33.367	25.402	0.0104	87.6
10.0	11.457	33.387	25.437	0.0233	87.9
15.0	11.411	33.400	25.457	0.0360	89.1
20.0	11.335	33.405	25.473	0.0488	89.2
25.0	10.765	33.413	25.582	0.0612	92.5
30.0	10.008	33.473	25.759	0.0729	95.2
35.0	9.920	33.658	25.918	0.0838	92.1
40.0	9.894	33.698	25.953	0.0942	85.9
45.0	9.849	33.721	25.979	0.1046	83.4
50.0	9.809	33.741	26.002	0.1148	81.0
55.0	9.766	33.754	26.019	0.1249	81.5
60.0	9.722	33.760	26.030	0.1349	81.4
65.0	9.678	33.771	26.046	0.1449	81.7
70.0	9.358	33.834	26.148	0.1546	81.6
75.0	9.226	33.848	26.180	0.1640	81.9
80.0	9.109	33.865	26.212	0.1732	80.1
85.0	9.109	33.864	26.212	0.1824	79.0
87.0	9.109	33.865	26.212	0.1861	79.0



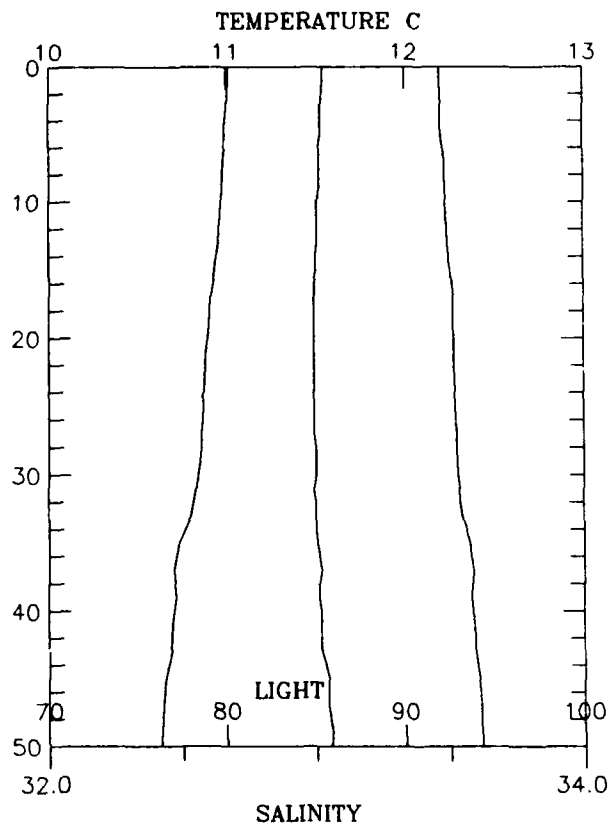
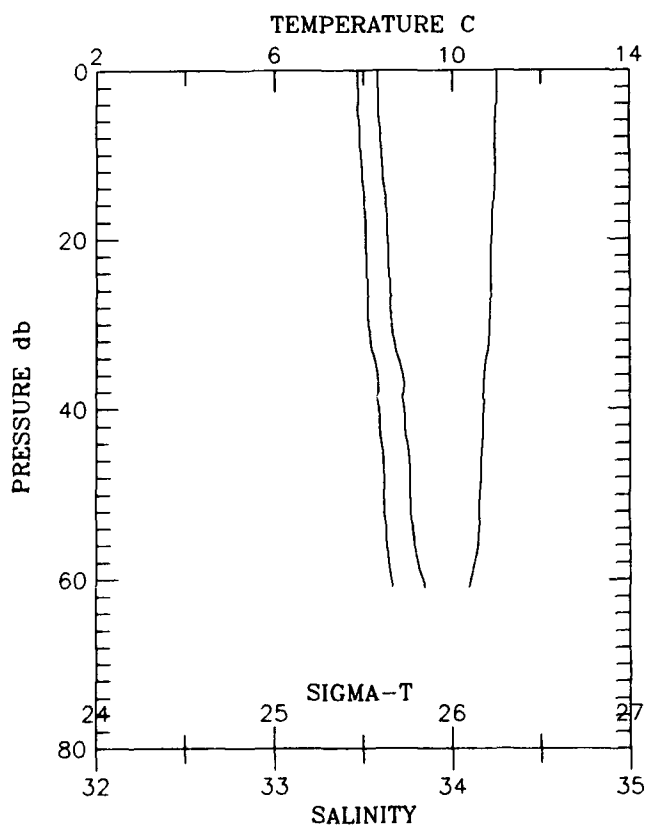
Cruise W8811 Station # 115 Depth m: 77 Time: 21 NOV 1988,0711  
 Position: 38 39.90'N 123 27.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.271	33.409	25.489	0.0000	86.0
5.0	11.268	33.412	25.492	0.0100	86.0
10.0	11.038	33.518	25.616	0.0223	85.2
15.0	10.960	33.541	25.647	0.0342	84.8
20.0	10.804	33.557	25.687	0.0459	85.5
25.0	10.128	33.579	25.821	0.0572	93.8
30.0	9.991	33.613	25.871	0.0681	93.4
35.0	10.038	33.664	25.903	0.0788	89.9
40.0	10.059	33.682	25.913	0.0894	87.6
45.0	10.052	33.688	25.919	0.0999	86.9
50.0	10.046	33.696	25.927	0.1105	85.4
55.0	9.943	33.715	25.959	0.1209	82.3
60.0	9.582	33.799	26.084	0.1310	81.0
65.0	9.454	33.820	26.122	0.1407	73.6
67.0	9.448	33.822	26.124	0.1445	72.5



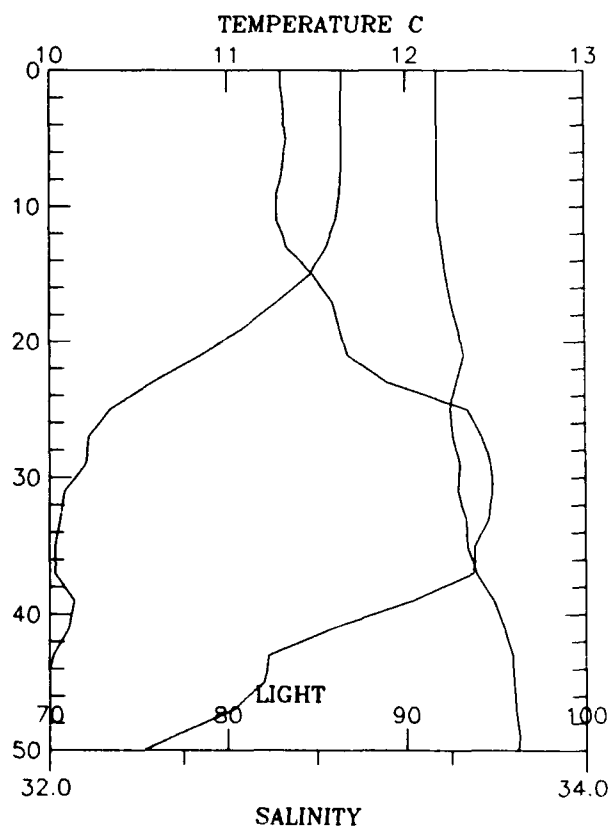
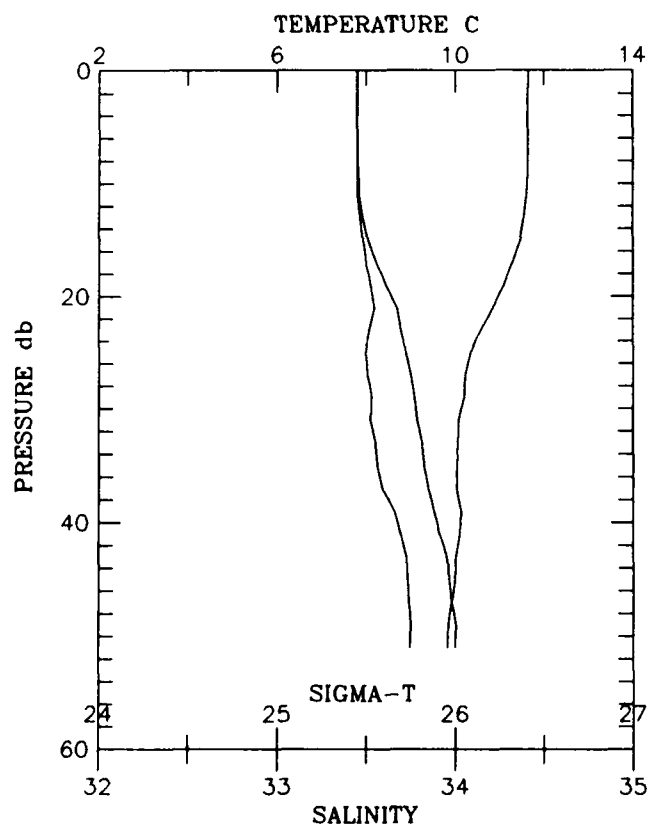
Cruise W8811 Station # 116 Depth m: 63 Time: 21 NOV 1988,0733  
 Position: 38 40.60'N 123 26.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.192	33.476	25.555	0.0000	83.0
5.0	11.217	33.469	25.545	0.0049	83.4
10.0	11.048	33.529	25.622	0.0170	81.9
15.0	10.777	33.583	25.712	0.0288	82.2
20.0	10.524	33.620	25.785	0.0401	82.7
25.0	10.124	33.657	25.883	0.0510	88.8
30.0	10.045	33.675	25.910	0.0616	88.7
35.0	10.004	33.697	25.934	0.0721	85.5
40.0	9.955	33.705	25.948	0.0826	85.0
45.0	9.887	33.727	25.977	0.0929	81.4
50.0	9.839	33.742	25.997	0.1031	75.7
55.0	9.805	33.751	26.010	0.1133	70.7
57.0	9.801	33.751	26.011	0.1173	69.2



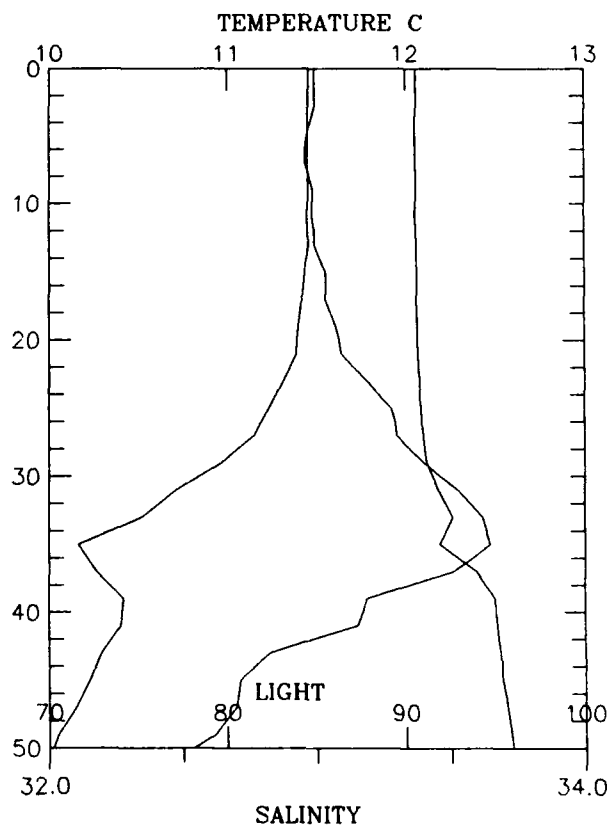
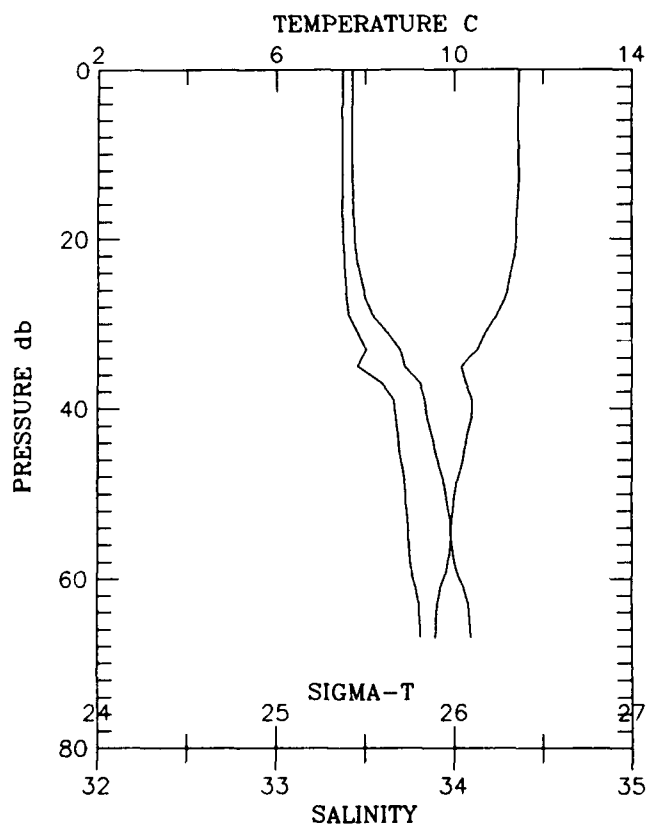
Cruise W8811 Station # 117 Depth m: 61 Time: 21 NOV 1988,1108  
 Position: 38 14.50'N 123 2.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.642	33.450	25.453	0.0000	83.0
5.0	11.638	33.449	25.453	0.0102	83.3
10.0	11.620	33.451	25.457	0.0229	82.8
15.0	11.463	33.481	25.509	0.0355	84.8
20.0	10.969	33.537	25.642	0.0477	86.5
25.0	10.340	33.497	25.721	0.0593	93.4
30.0	10.143	33.529	25.780	0.0706	94.8
35.0	10.033	33.561	25.824	0.0817	93.8
40.0	10.123	33.677	25.899	0.0925	88.1
45.0	9.987	33.732	25.965	0.1030	82.0
50.0	9.839	33.748	26.002	0.1132	75.3
51.0	9.837	33.745	26.000	0.1152	73.7



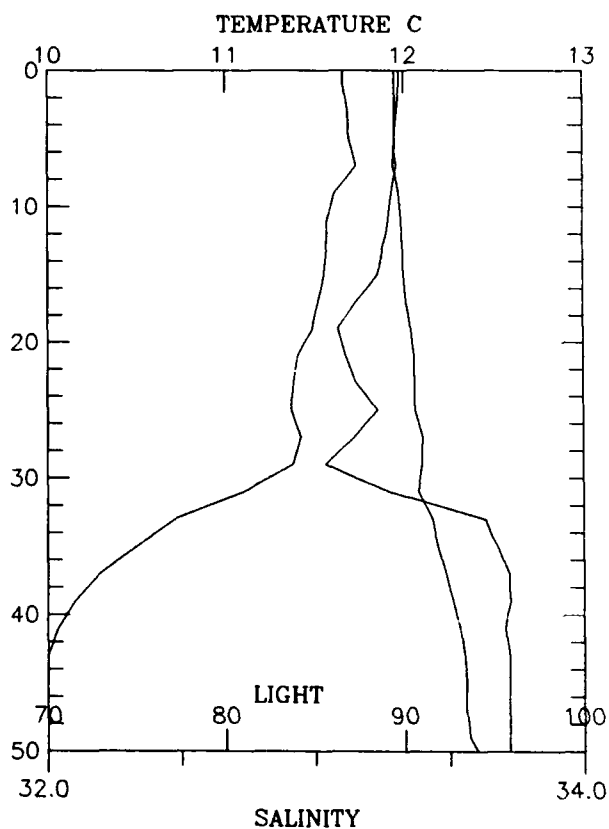
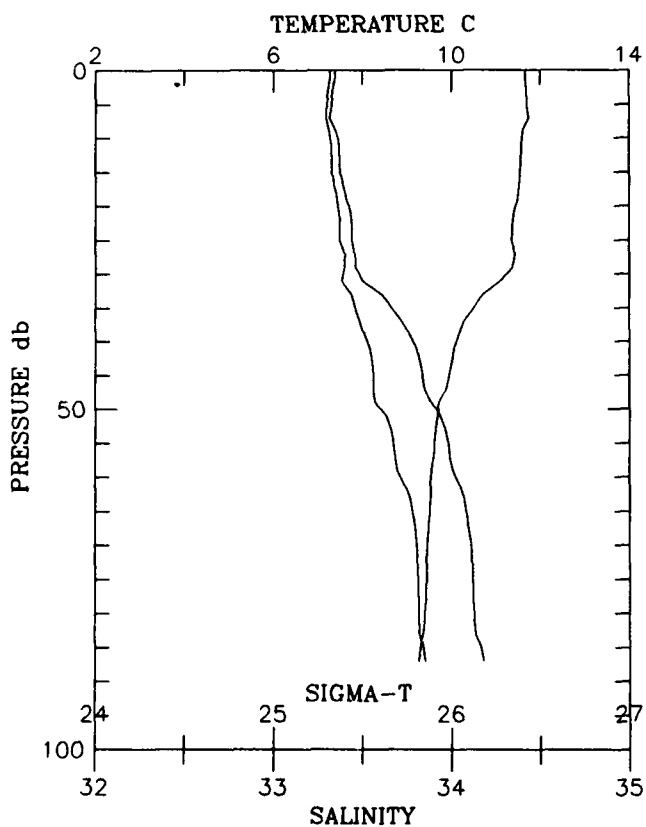
Cruise W8811 Station # 118 Depth m: 76 Time: 21 NOV 1988,1137  
 Position: 38 13.80'N 123 4.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.455	33.372	25.427	0.0000	84.9
5.0	11.452	33.369	25.425	0.0103	84.5
10.0	11.453	33.371	25.426	0.0231	84.8
15.0	11.433	33.373	25.431	0.0360	85.5
20.0	11.393	33.377	25.442	0.0488	86.3
25.0	11.234	33.390	25.481	0.0615	89.2
30.0	10.841	33.432	25.583	0.0739	91.9
35.0	10.161	33.459	25.722	0.0857	94.7
40.0	10.409	33.668	25.843	0.0968	87.6
45.0	10.229	33.692	25.892	0.1076	80.7
50.0	10.022	33.727	25.955	0.1181	78.1
55.0	9.928	33.743	25.983	0.1284	74.3
60.0	9.767	33.774	26.034	0.1385	77.1
65.0	9.602	33.809	26.089	0.1484	79.1
67.0	9.581	33.812	26.095	0.1523	79.3



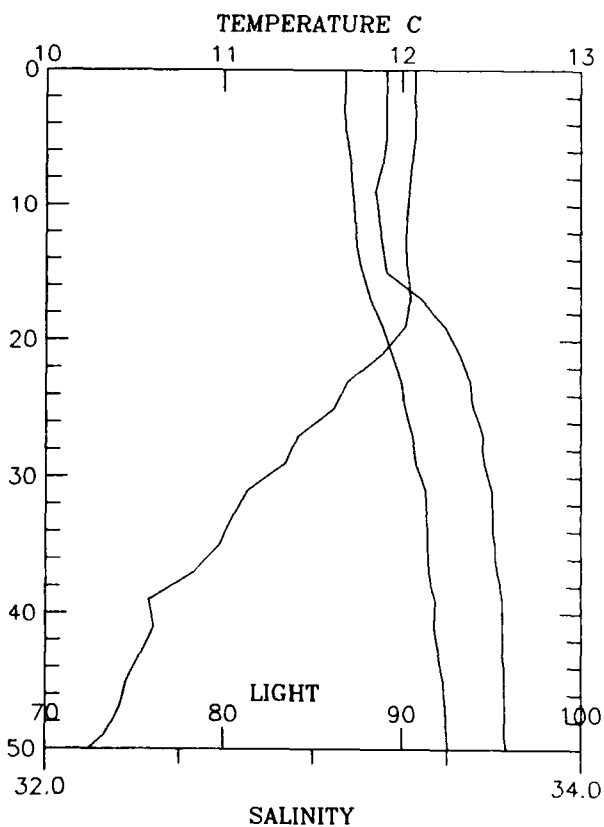
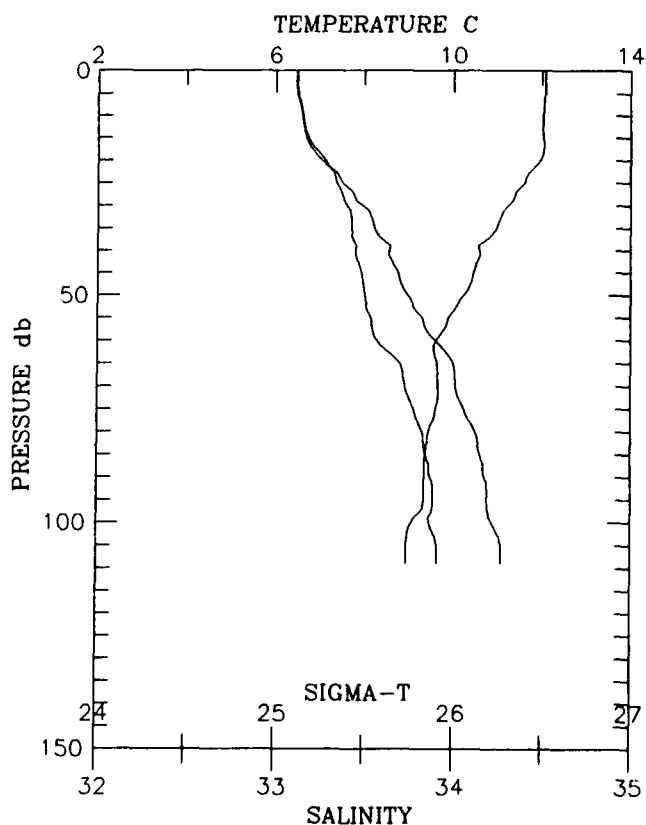
Cruise W8811 Station # 119 Depth m: 95 Time: 21 NOV 1988,1225  
 Position: 38 12.60'N 123 9.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.663	33.316	25.345	0.0000	89.5
5.0	11.695	33.298	25.325	0.0106	89.5
10.0	11.590	33.318	25.360	0.0239	89.2
15.0	11.553	33.330	25.376	0.0371	88.5
20.0	11.443	33.363	25.422	0.0501	86.5
25.0	11.366	33.372	25.442	0.0629	88.5
30.0	11.239	33.390	25.480	0.0756	87.3
35.0	10.499	33.457	25.663	0.0878	95.2
40.0	10.104	33.525	25.783	0.0992	95.7
45.0	9.944	33.561	25.838	0.1103	95.8
50.0	9.695	33.603	25.913	0.1211	95.8
55.0	9.615	33.675	25.982	0.1315	95.8
60.0	9.540	33.714	26.025	0.1416	95.5
65.0	9.505	33.780	26.082	0.1515	92.3
70.0	9.455	33.805	26.110	0.1613	89.8
75.0	9.431	33.811	26.118	0.1709	89.2
80.0	9.401	33.817	26.127	0.1805	89.4
85.0	9.288	33.840	26.164	0.1901	89.9
87.0	9.256	33.852	26.179	0.1938	84.4



Cruise W8811 Station # 120 Depth m: 117 Time: 21 NOV 1988,1330  
 Position: 38 11.70'N 123 16.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.071	33.120	25.116	0.0000	89.1
10.0	12.032	33.153	25.149	0.0257	88.6
20.0	11.951	33.277	25.260	0.0537	92.8
30.0	11.240	33.402	25.489	0.0799	94.8
40.0	10.594	33.453	25.643	0.1043	95.6
50.0	10.241	33.503	25.743	0.1276	95.8
60.0	9.631	33.573	25.900	0.1497	96.0
70.0	9.670	33.731	26.017	0.1702	95.9
80.0	9.454	33.825	26.126	0.1900	95.7
90.0	9.361	33.875	26.180	0.2089	95.6
100.0	9.085	33.872	26.222	0.2275	95.9
109.0	8.951	33.915	26.276	0.2436	87.4

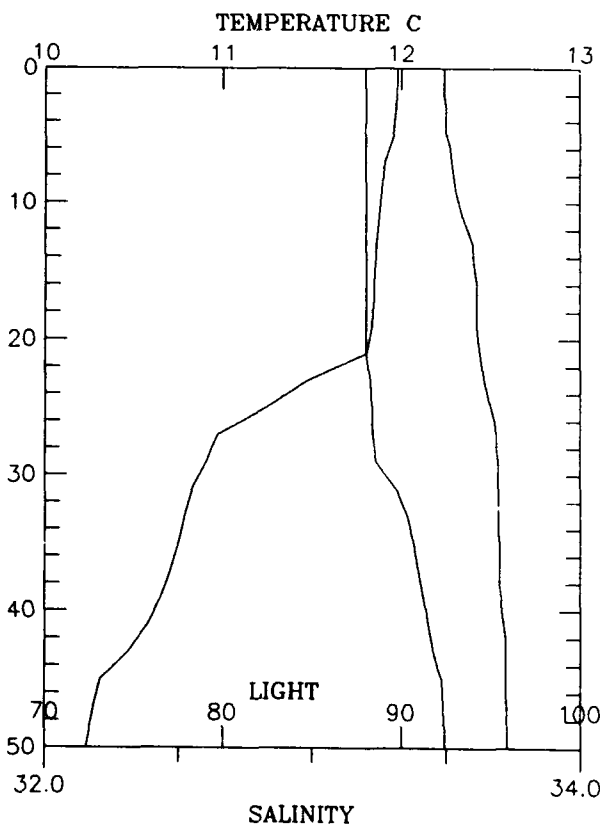
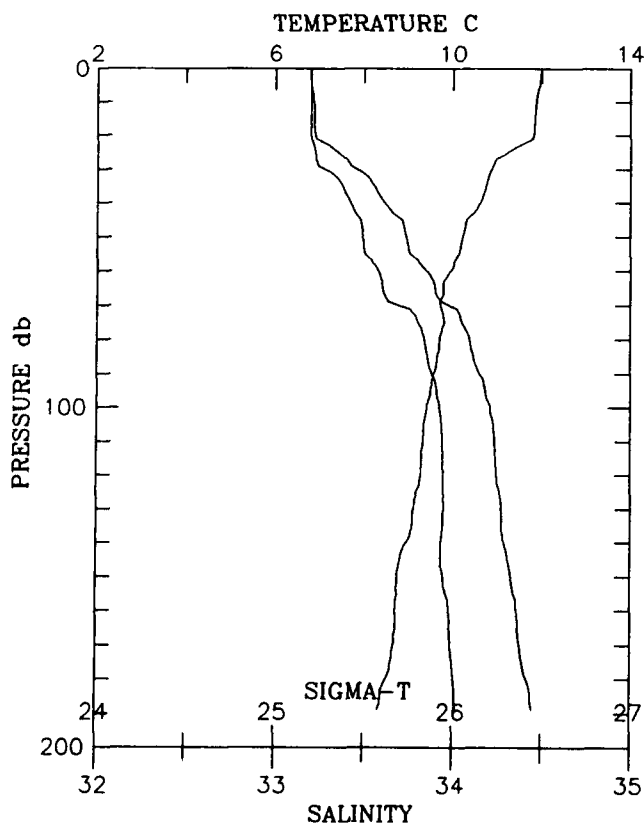




Cruise W8811 Station # 121 Depth m: 198 Time: 21 NOV 1988,1427  
 Position: 38 10.50'N 123 22.10'W Depth Deck Offset: 0.00

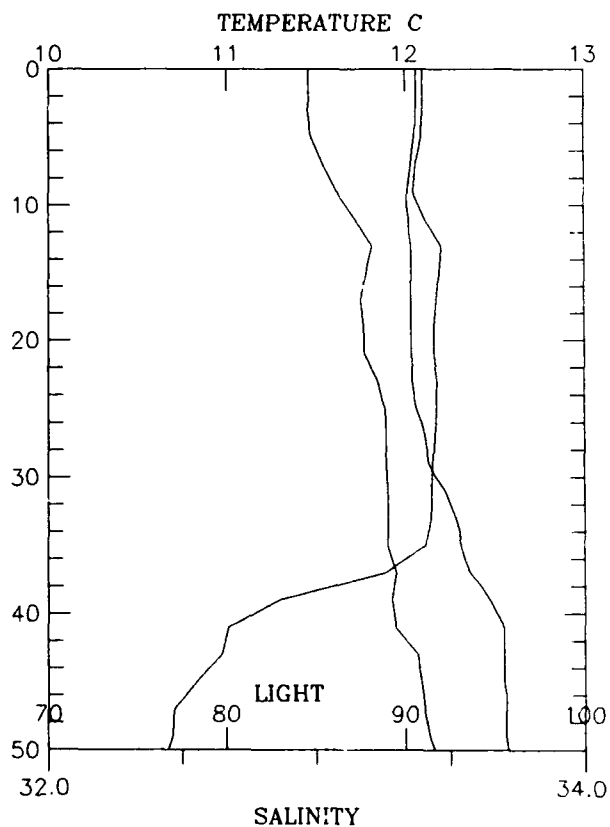
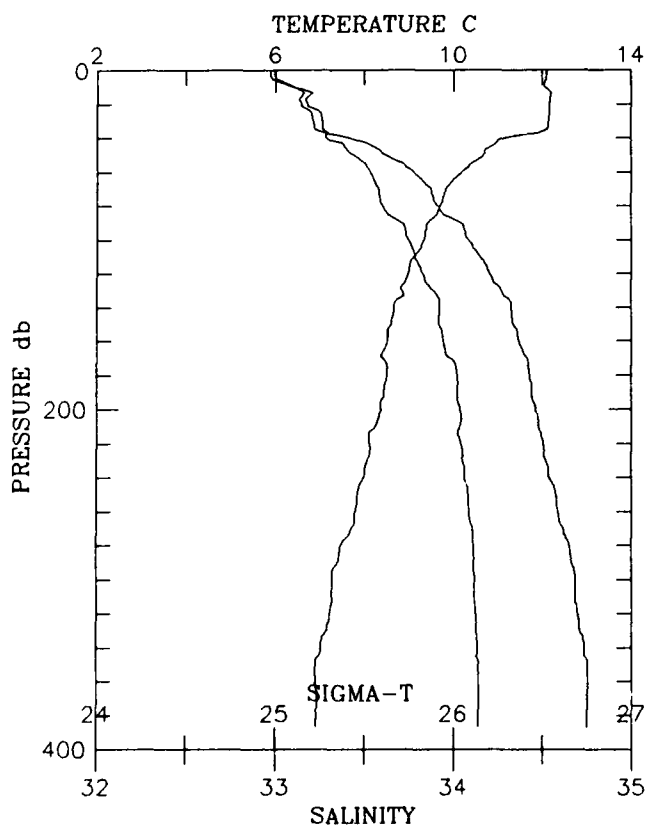
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
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0.0	11.978	33.200	25.196	0.0000	92.4
10.0	11.882	33.201	25.215	0.0250	93.2
20.0	11.820	33.202	25.227	0.0527	94.3
30.0	10.867	33.276	25.457	0.0792	95.4
40.0	10.616	33.424	25.617	0.1038	95.6
50.0	10.231	33.494	25.738	0.1271	95.9
60.0	9.948	33.581	25.853	0.1495	95.9
70.0	9.727	33.697	25.981	0.1708	95.9
80.0	9.710	33.841	26.096	0.1906	96.0
90.0	9.576	33.885	26.153	0.2099	96.1
100.0	9.418	33.927	26.211	0.2286	96.1
110.0	9.333	33.943	26.237	0.2468	96.1
120.0	9.288	33.950	26.250	0.2650	96.1
130.0	9.122	33.949	26.276	0.2830	96.1
140.0	8.965	33.937	26.291	0.3008	96.0
150.0	8.767	33.949	26.332	0.3183	95.7
160.0	8.727	33.982	26.364	0.3355	90.0
170.0	8.679	33.991	26.378	0.3525	89.7
180.0	8.517	34.010	26.419	0.3693	89.8
189.0	8.352	34.020	26.451	0.3841	91.6



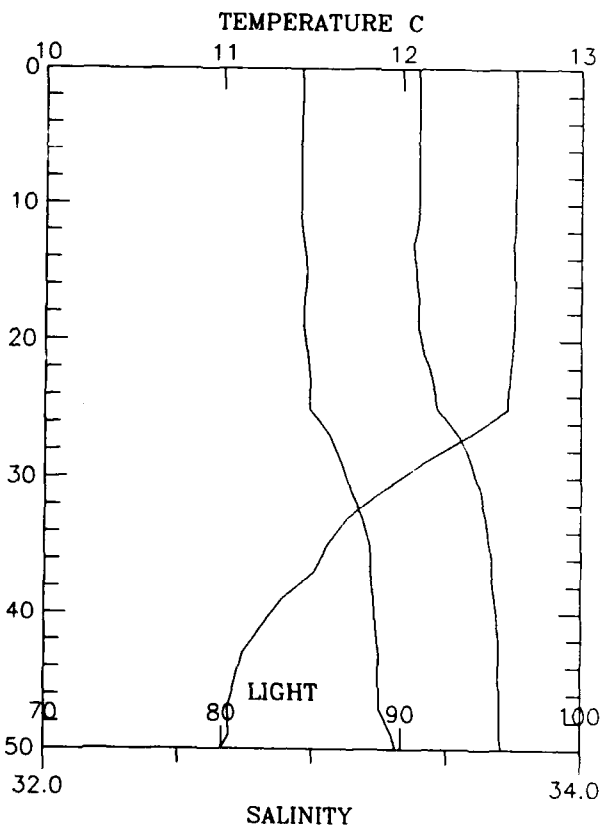
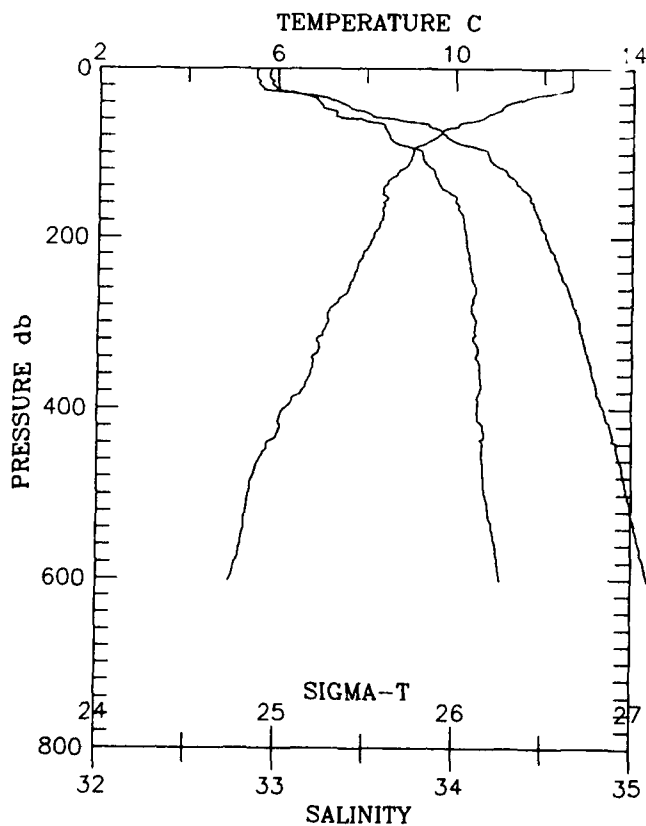
Cruise W8811 Station # 122 Depth m: 395 Time: 21 NOV 1988,1548  
 Position: 38 9.30'N 123 28.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.097	32.973	24.998	0.0000	90.6
10.0	12.077	33.111	25.108	0.0265	90.1
20.0	12.158	33.179	25.146	0.0549	90.3
30.0	12.149	33.265	25.214	0.0829	91.7
40.0	11.151	33.289	25.417	0.1102	95.1
50.0	10.670	33.439	25.618	0.1349	95.7
60.0	10.179	33.533	25.776	0.1580	95.9
80.0	9.701	33.605	25.913	0.2015	95.8
100.0	9.330	33.746	26.084	0.2420	95.9
150.0	8.594	33.919	26.336	0.3333	96.3
200.0	8.370	34.038	26.463	0.4165	96.4
250.0	7.845	34.084	26.577	0.4951	96.2
300.0	7.286	34.120	26.686	0.5685	95.9
387.0	6.927	34.138	26.750	0.6889	95.6



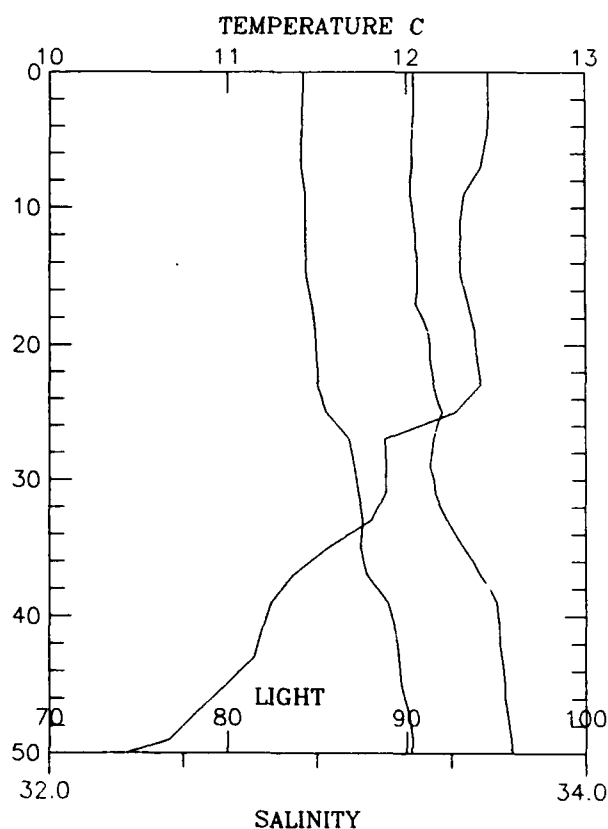
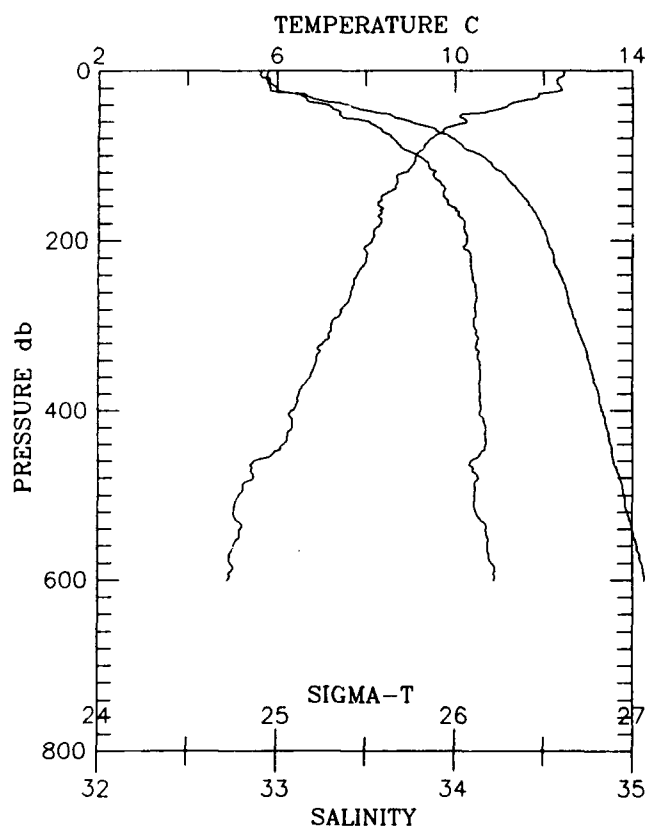
Cruise W8811 Station # 123 Depth m: 981 Time: 21 NOV 1988,1652  
 Position: 38 8.30'N 123 34.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.631	32.960	24.885	0.0000	90.9
10.0	12.630	32.954	24.881	0.0278	90.9
20.0	12.622	32.974	24.898	0.0586	91.1
30.0	12.002	33.127	25.135	0.0886	94.1
40.0	11.275	33.233	25.351	0.1160	95.3
50.0	10.995	33.313	25.464	0.1420	95.6
60.0	10.550	33.467	25.662	0.1667	95.9
80.0	9.591	33.625	25.947	0.2102	96.0
100.0	9.038	33.811	26.181	0.2499	96.0
150.0	8.396	33.986	26.419	0.3384	96.3
200.0	8.172	34.063	26.512	0.4190	96.5
250.0	7.707	34.100	26.611	0.4952	96.6
300.0	7.166	34.123	26.706	0.5671	96.6
400.0	6.204	34.136	26.844	0.7017	96.5
500.0	5.389	34.173	26.974	0.8225	96.4
600.0	4.990	34.260	27.090	0.9331	96.4
603.0	4.969	34.261	27.093	0.9363	96.3



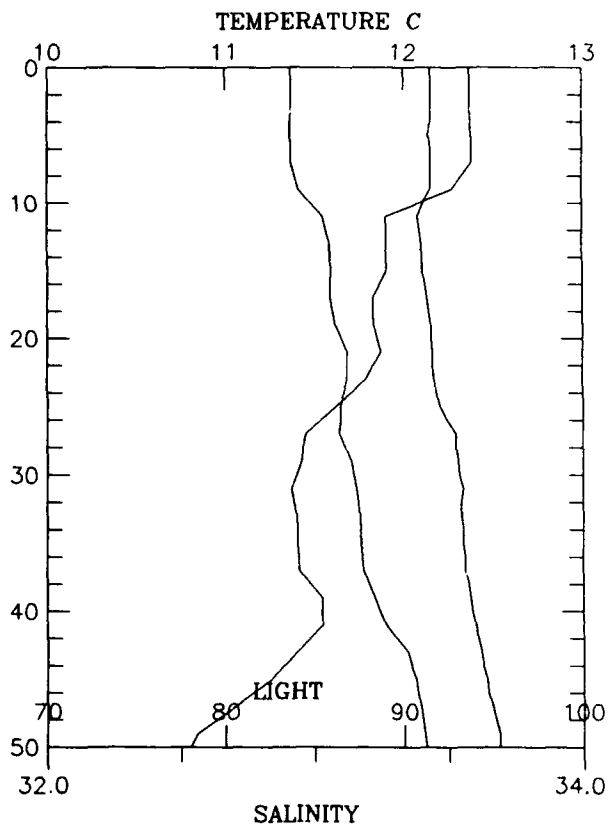
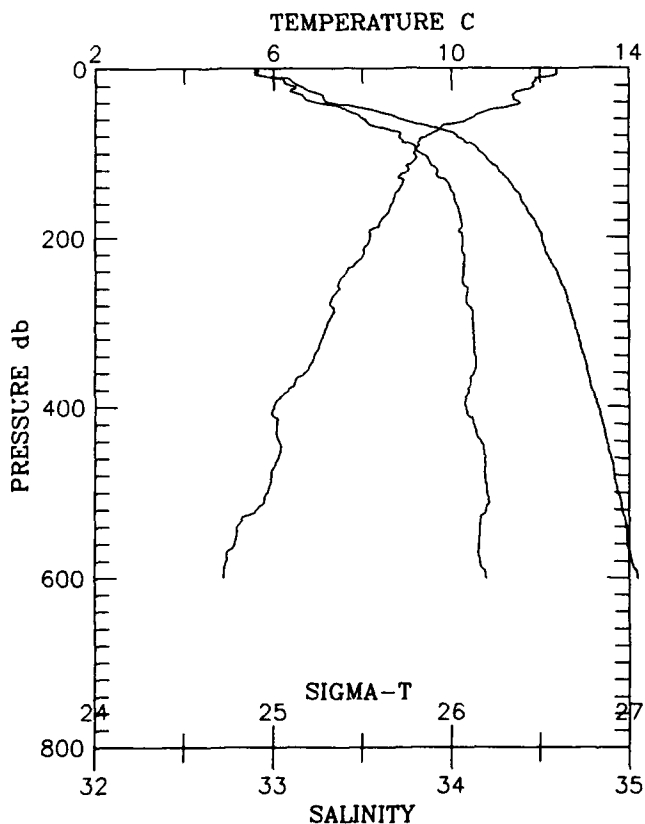
Cruise W8811 Station # 124 Depth m: 1880 Time: 21 NOV 1988,1835  
 Position: 38 7.40'N 123 38.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.457	32.949	24.911	0.0000	90.4
10.0	12.312	32.957	24.944	0.0275	90.3
20.0	12.386	32.996	24.961	0.0577	91.3
30.0	11.884	33.147	25.172	0.0870	91.5
40.0	11.217	33.277	25.396	0.1144	95.1
50.0	10.434	33.353	25.592	0.1397	95.9
60.0	10.257	33.512	25.747	0.1631	96.0
80.0	9.488	33.653	25.986	0.2061	96.1
100.0	9.139	33.789	26.148	0.2459	95.8
150.0	8.344	33.942	26.391	0.3349	96.1
200.0	8.132	34.068	26.522	0.4154	96.5
250.0	7.735	34.116	26.619	0.4915	96.5
300.0	7.216	34.109	26.687	0.5639	96.6
400.0	6.357	34.146	26.832	0.6986	96.6
500.0	5.158	34.111	26.952	0.8220	96.6
600.0	4.913	34.222	27.068	0.9342	96.5
601.0	4.896	34.220	27.069	0.9353	96.6



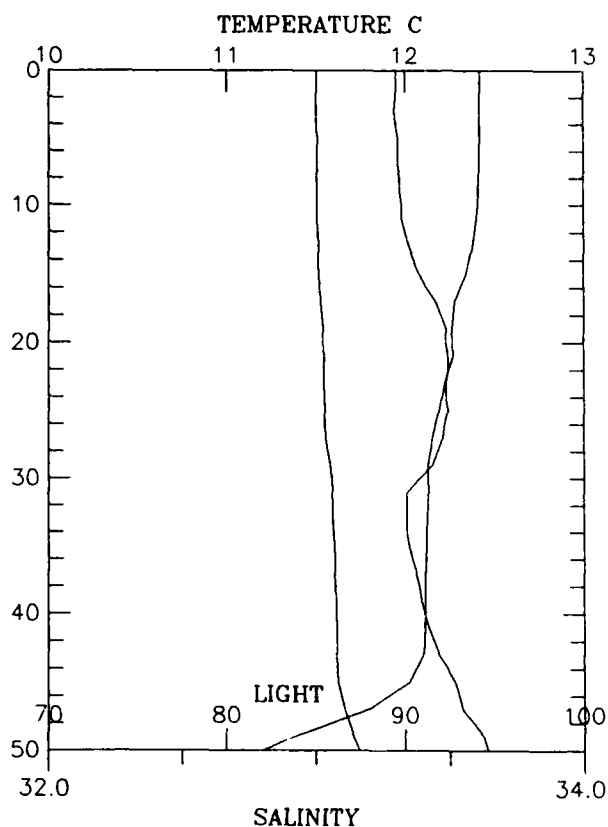
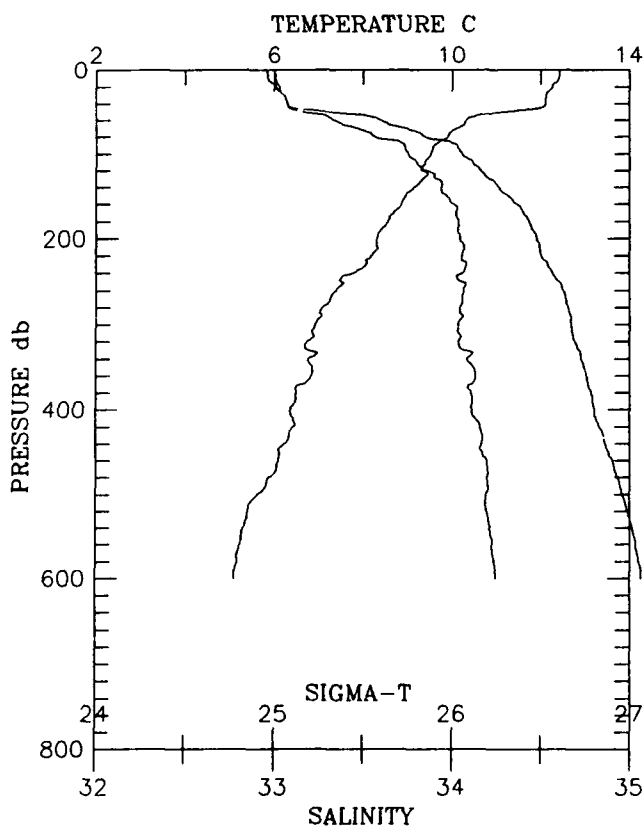
Cruise W8811 Station # 125 Depth m: 2605 Time: 21 NOV 1988,1953  
 Position: 38 6.30'N 123 44.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.371	32.914	24.900	0.0000	91.5
10.0	12.087	32.987	25.010	0.0275	91.1
20.0	11.851	33.100	25.142	0.0563	91.5
30.0	11.397	33.146	25.261	0.0843	93.1
40.0	11.542	33.244	25.310	0.1114	93.8
50.0	10.802	33.416	25.578	0.1369	95.3
60.0	10.396	33.511	25.722	0.1605	95.4
80.0	9.453	33.710	26.036	0.2032	96.2
100.0	9.159	33.822	26.171	0.2419	96.2
150.0	8.738	34.018	26.391	0.3306	96.4
200.0	8.180	34.066	26.513	0.4118	96.5
250.0	7.490	34.064	26.613	0.4883	96.6
300.0	7.233	34.124	26.696	0.5605	96.6
400.0	6.009	34.081	26.826	0.6957	96.6
500.0	5.868	34.200	26.938	0.8198	96.6
600.0	4.894	34.197	27.051	0.9342	96.6
601.0	4.888	34.201	27.054	0.9353	96.6



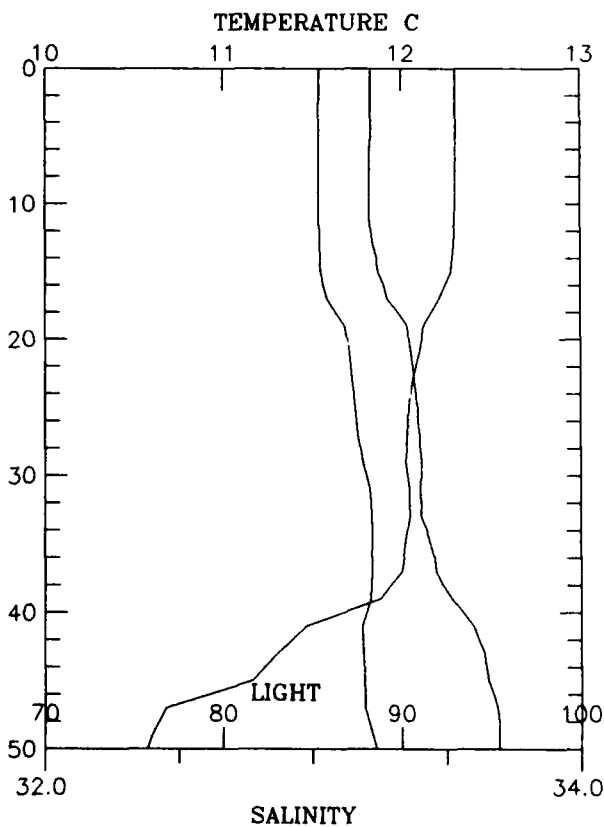
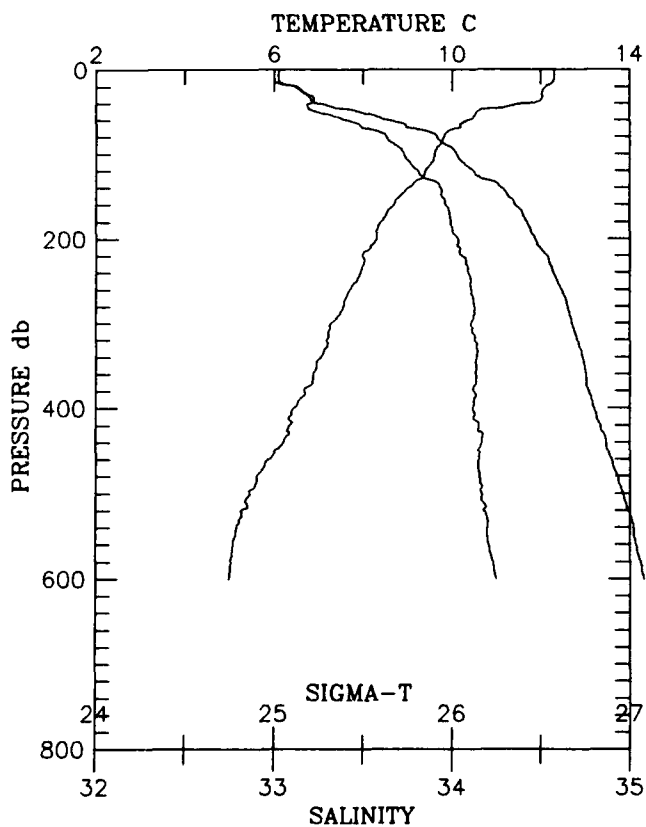
Cruise W8811 Station # 126 Depth m: 2805 Time: 21 NOV 1988,2215  
 Position: 37 49.50'N 123 36.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.416	33.003	24.960	0.0000	89.5
10.0	12.406	33.005	24.964	0.0271	89.8
20.0	12.265	33.028	25.009	0.0570	92.3
30.0	12.127	33.058	25.057	0.0865	90.8
40.0	12.111	33.076	25.075	0.1157	91.1
50.0	11.208	33.163	25.308	0.1443	94.6
60.0	10.323	33.337	25.599	0.1693	95.6
80.0	9.903	33.568	25.850	0.2151	95.6
100.0	9.521	33.753	26.058	0.2560	94.9
150.0	8.963	33.972	26.319	0.3494	96.1
200.0	8.311	34.044	26.477	0.4325	95.8
250.0	7.523	34.060	26.605	0.5105	96.3
300.0	6.911	34.034	26.670	0.5830	96.4
400.0	6.370	34.112	26.803	0.7200	96.5
500.0	5.644	34.195	26.961	0.8445	96.5
600.0	5.118	34.247	27.065	0.9561	96.5
601.0	5.118	34.246	27.064	0.9572	96.6



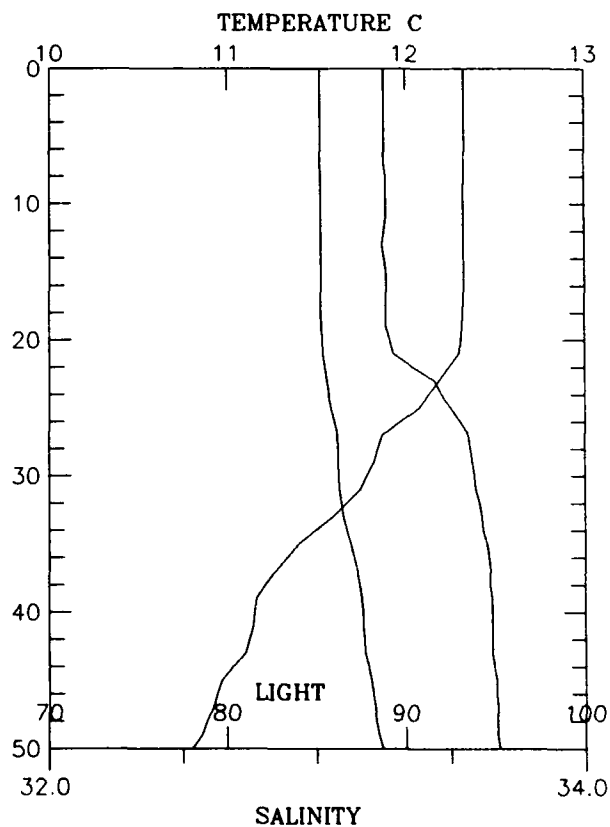
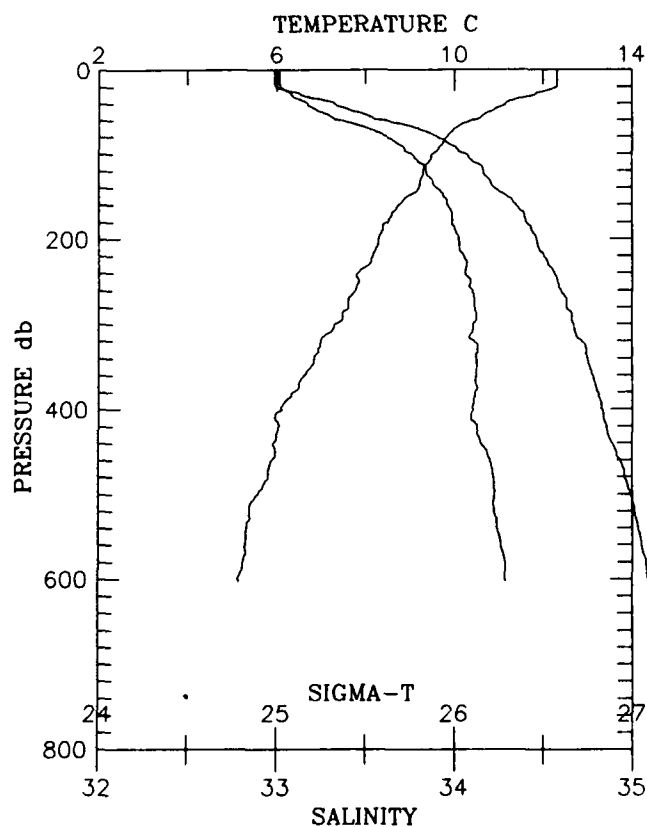
Cruise W8811 Station # 127 Depth m: 1741 Time: 21 NOV 1988,2332  
 Position: 37 50.60'N 123 30.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	C'ANNELA LIGHT)
0.0	12.300	33.026	25.000	0.0000	88.3
10.0	12.300	33.025	24.999	0.0268	88.2
20.0	12.111	33.131	25.117	0.0563	90.4
30.0	12.031	33.201	25.187	0.0846	91.1
40.0	11.670	33.201	25.254	0.1124	93.4
50.0	10.572	33.237	25.479	0.1388	95.4
60.0	10.382	33.406	25.643	0.1633	95.5
80.0	9.811	33.631	25.915	0.2079	95.4
100.0	9.616	33.730	26.025	0.2493	95.1
150.0	8.835	33.943	26.317	0.3439	95.8
200.0	8.303	34.032	26.468	0.4274	95.4
250.0	7.846	34.105	26.594	0.5050	96.4
300.0	7.279	34.107	26.677	0.5779	96.2
400.0	6.442	34.118	26.799	0.7151	96.5
500.0	5.458	34.166	26.961	0.8396	96.4
600.0	4.988	34.247	27.080	0.9507	96.5
601.0	4.986	34.248	27.081	0.9517	96.5



Cruise W8811 Station # 128 Depth m: 880 Time: 22 NOV 1988,0028  
 Position: 37 51.40'N 123 26.80'W Depth Deck Offset: 0.00

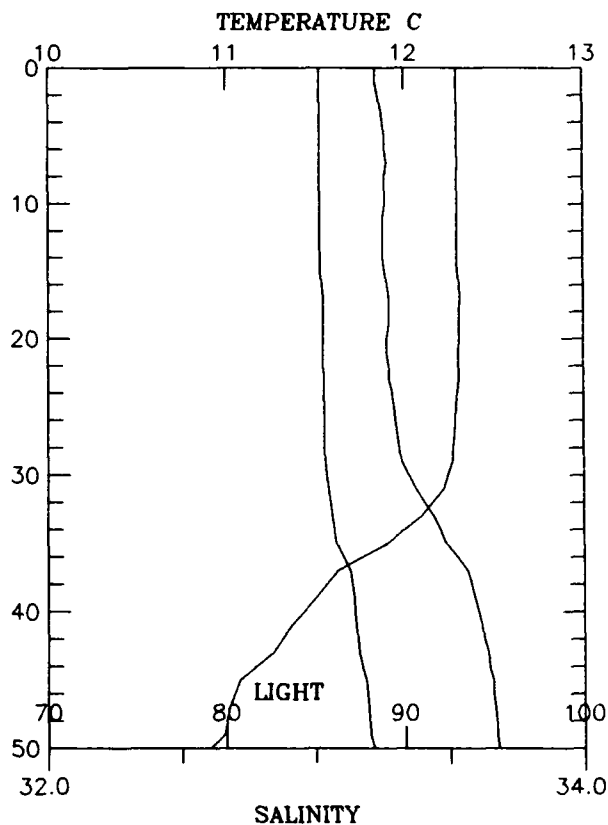
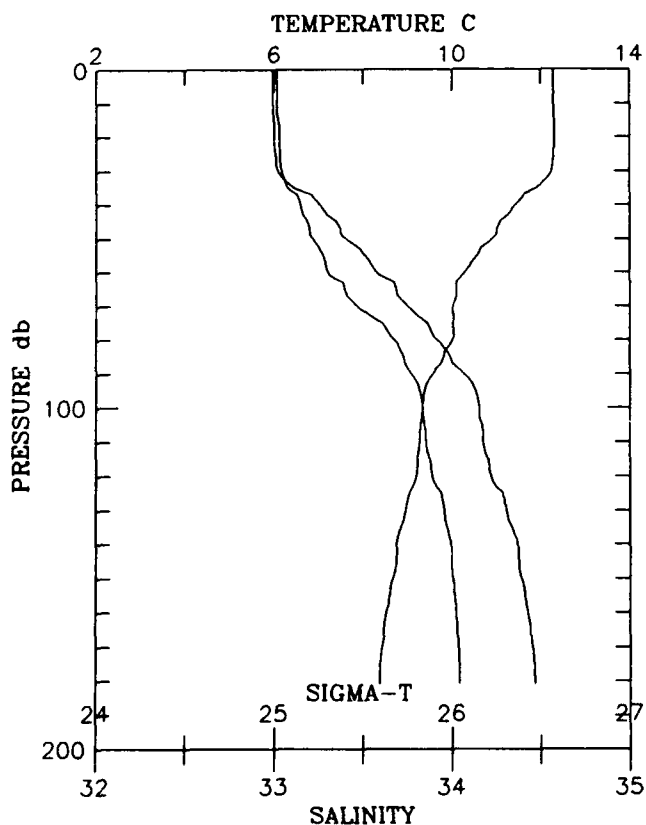
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.326	33.016	24.987	0.0000	88.8
10.0	12.323	33.017	24.989	0.0209	88.9
20.0	12.307	33.022	24.996	0.0508	89.1
30.0	11.781	33.083	25.142	0.0799	93.8
40.0	11.153	33.172	25.325	0.1075	94.8
50.0	10.800	33.245	25.444	0.1337	95.2
60.0	10.446	33.353	25.591	0.1587	95.4
80.0	9.833	33.615	25.899	0.2037	95.5
100.0	9.535	33.752	26.055	0.2449	95.0
150.0	8.949	33.939	26.295	0.3390	95.7
200.0	8.295	34.024	26.464	0.4231	95.8
250.0	7.844	34.088	26.581	0.5015	96.2
300.0	7.319	34.108	26.672	0.5749	96.1
400.0	6.107	34.103	26.831	0.7100	96.3
500.0	5.582	34.225	26.992	0.8317	96.1
600.0	5.147	34.285	27.092	0.9413	96.1
603.0	5.157	34.290	27.094	0.9444	96.1





Cruise W8811 Station # 129 Depth m: 195 Time: 22 NOV 1988,0122  
 Position: 37 51.90'N 123 24.40'W Depth Deck Offset: 0.00

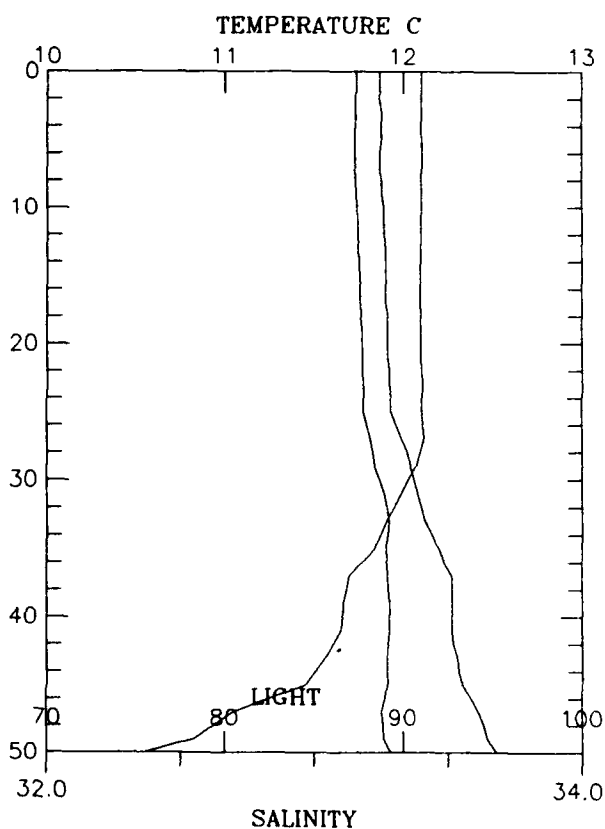
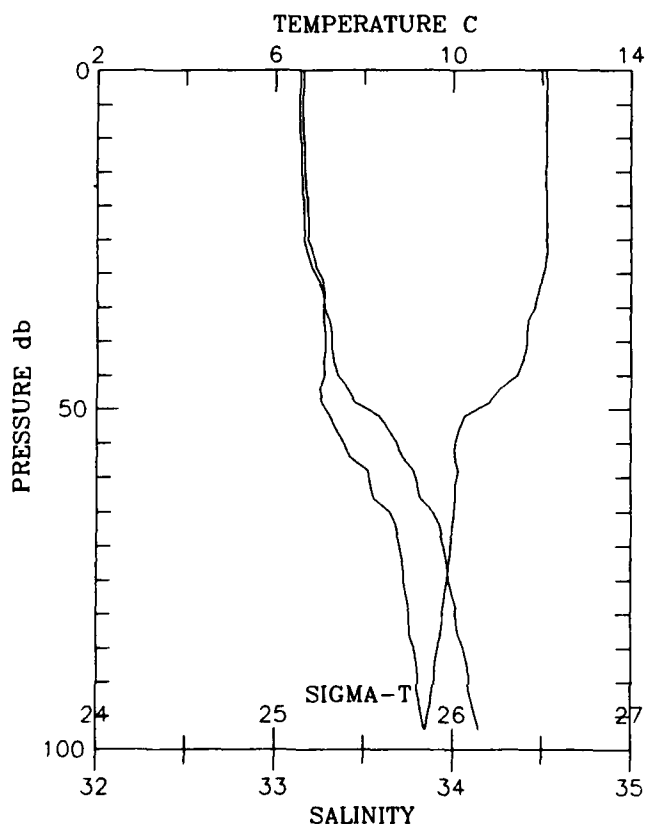
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.295	33.017	24.994	0.0000	88.4
10.0	12.293	33.017	24.995	0.0209	88.9
20.0	12.304	33.029	25.002	0.0507	89.0
30.0	12.241	33.043	25.024	0.0804	90.2
40.0	11.434	33.147	25.255	0.1089	94.1
50.0	10.907	33.217	25.404	0.1356	95.2
60.0	10.296	33.303	25.578	0.1607	95.7
70.0	10.023	33.465	25.750	0.1841	95.9
80.0	10.010	33.674	25.915	0.2060	90.9
90.0	9.564	33.770	26.064	0.2265	94.7
100.0	9.333	33.834	26.152	0.2457	94.3
110.0	9.273	33.855	26.178	0.2646	94.7
120.0	9.191	33.888	26.218	0.2832	94.8
130.0	8.960	33.956	26.307	0.3011	94.6
140.0	8.759	33.995	26.369	0.3184	94.9
150.0	8.670	34.005	26.391	0.3353	94.6
160.0	8.526	34.024	26.428	0.3519	94.7
170.0	8.424	34.036	26.453	0.3682	94.9
180.0	8.370	34.040	26.465	0.3844	94.8
181.0	8.369	34.040	26.465	0.3860	94.8



Cruise W8811 Station # 130 Depth m: 107 Time: 22 NOV 1988,0216  
 Position: 37 53.10'N 123 17.20'W Depth Deck Offset: 0.00

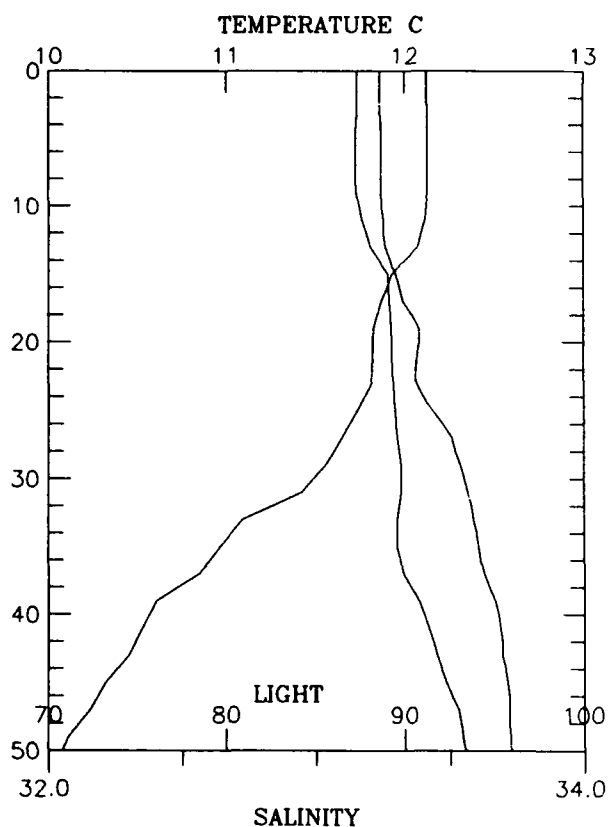
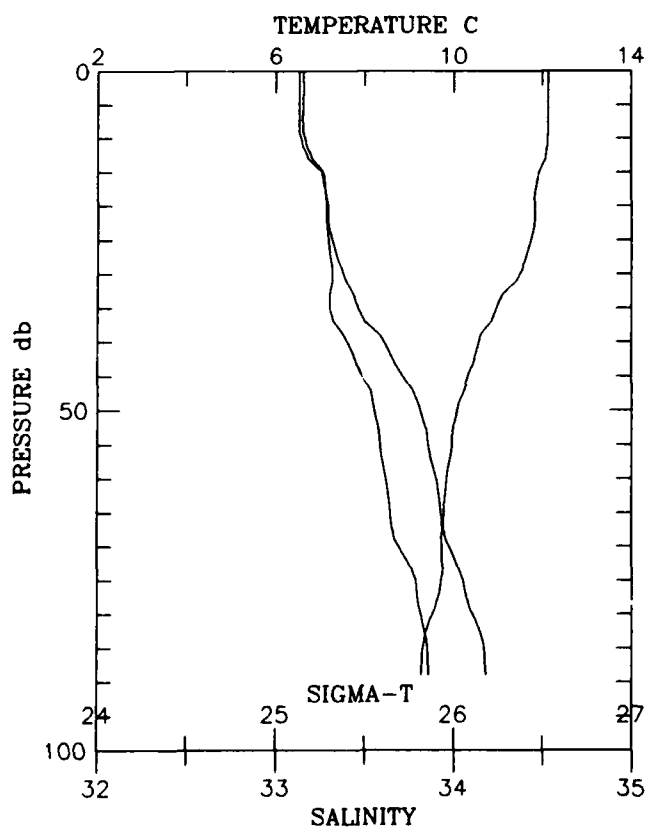
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
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0.0	12.101	33.157	25.140	0.0000	88.7
5.0	12.103	33.154	25.137	0.0114	88.8
10.0	12.099	33.161	25.143	0.0256	88.9
15.0	12.095	33.170	25.151	0.0398	89.0
20.0	12.098	33.179	25.157	0.0539	89.1
25.0	12.104	33.184	25.160	0.0681	89.3
30.0	12.030	33.245	25.221	0.0821	90.6
35.0	11.840	33.269	25.275	0.0958	92.0
40.0	11.660	33.281	25.318	0.1093	92.7
45.0	11.449	33.274	25.351	0.1226	93.3
50.0	10.552	33.285	25.519	0.1355	95.2
55.0	10.042	33.385	25.684	0.1475	95.9
60.0	10.090	33.530	25.789	0.1589	95.8
65.0	10.024	33.645	25.890	0.1700	92.7
70.0	9.946	33.699	25.946	0.1805	90.2
75.0	9.881	33.725	25.977	0.1909	88.8
80.0	9.771	33.753	26.017	0.2011	90.9
85.0	9.650	33.781	26.059	0.2111	92.9
90.0	9.566	33.802	26.089	0.2209	92.5
95.0	9.445	33.828	26.129	0.2307	90.8
97.0	9.398	33.840	26.146	0.2345	90.1



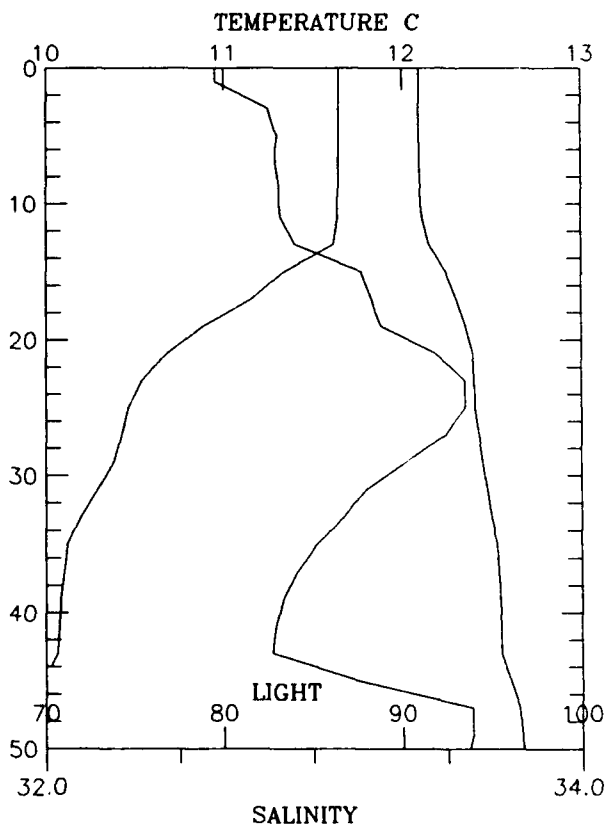
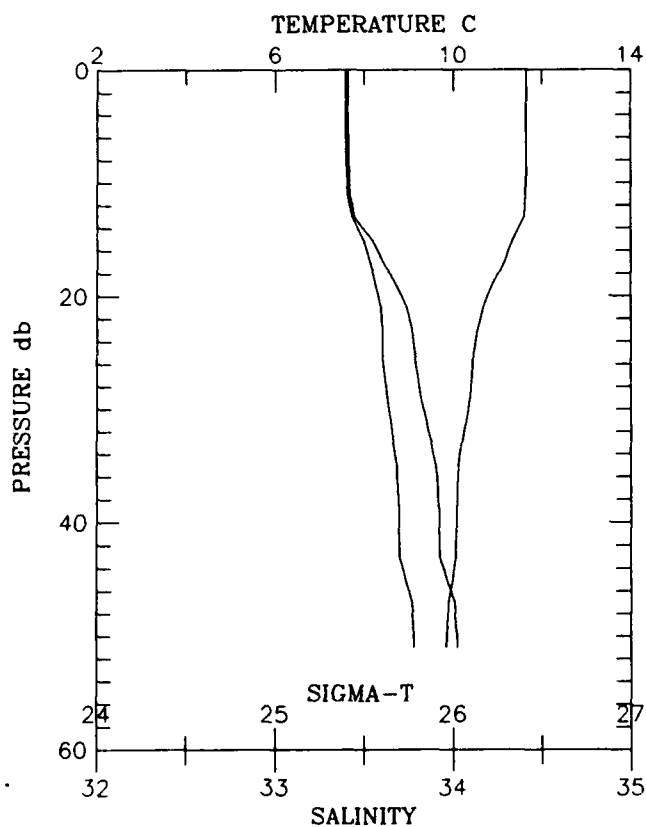
Cruise W8811 Station # 131 Depth m: 97 Time: 22 NOV 1988,0304  
 Position: 37 54.30'N 123 10.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	12.124	33.155	25.134	0.0000	88.6
5.0	12.126	33.152	25.131	0.0114	88.7
10.0	12.118	33.163	25.141	0.0256	88.7
15.0	11.928	33.270	25.260	0.0397	89.5
20.0	11.821	33.284	25.291	0.0532	90.8
25.0	11.734	33.296	25.316	0.0667	91.5
30.0	11.488	33.319	25.379	0.0800	93.3
35.0	10.966	33.304	25.462	0.0929	94.1
40.0	10.566	33.402	25.608	0.1052	95.2
45.0	10.323	33.484	25.714	0.1170	95.7
50.0	10.077	33.555	25.811	0.1283	95.9
55.0	9.957	33.588	25.857	0.1392	95.9
60.0	9.844	33.620	25.901	0.1500	95.8
65.0	9.786	33.644	25.929	0.1605	95.8
70.0	9.736	33.693	25.976	0.1710	95.4
75.0	9.712	33.787	26.053	0.1811	92.2
80.0	9.521	33.814	26.106	0.1909	90.6
85.0	9.304	33.853	26.172	0.2005	86.3
89.0	9.274	33.860	26.182	0.2079	84.4



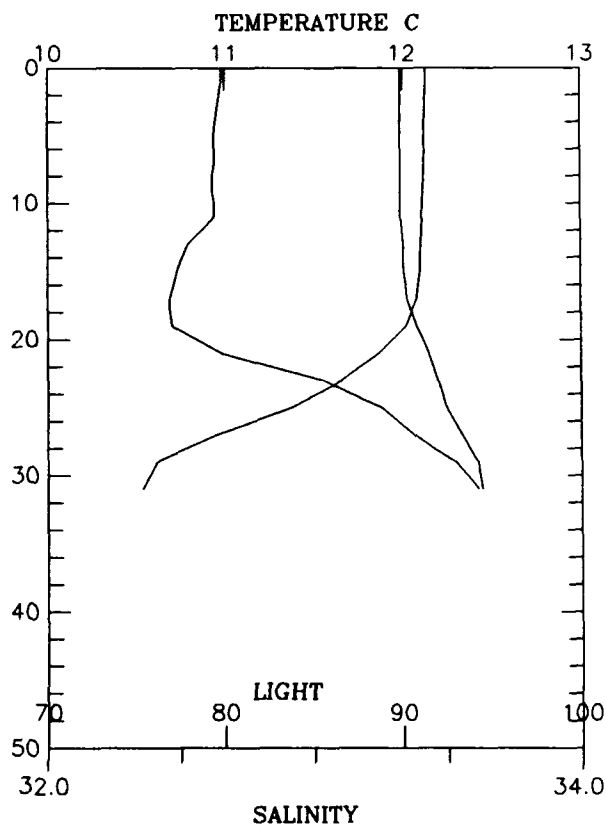
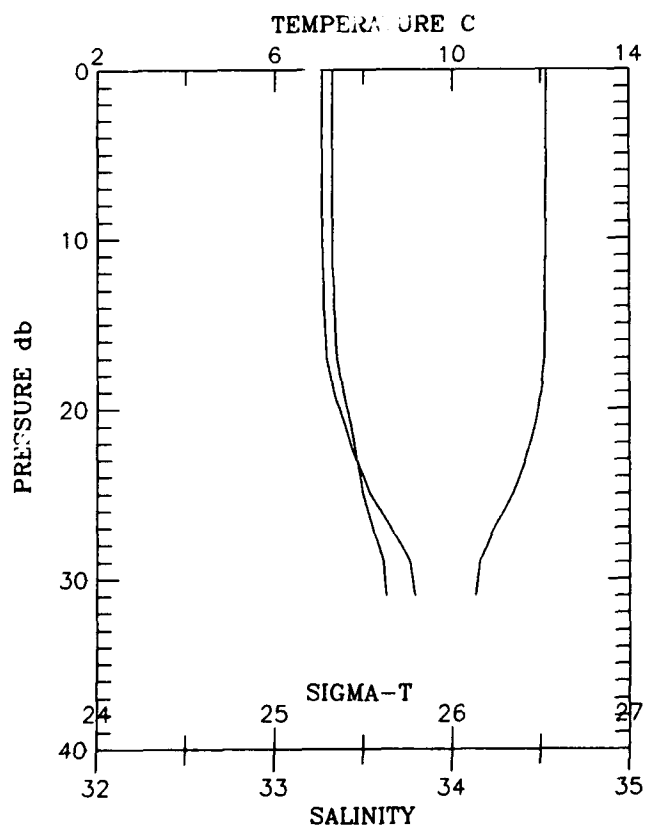
Cruise W8811 Station # 132 Depth m: 58 Time: 22 NOV 1988,0433  
 Position: 37 56.50'N 122 56.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%LIGHT)
0.0	11.647	33.395	25.409	0.0000	79.5
5.0	11.646	33.396	25.410	0.0103	83.0
10.0	11.641	33.404	25.417	0.0233	83.1
15.0	11.337	33.496	25.544	0.0360	87.7
20.0	10.781	33.581	25.710	0.0479	90.3
25.0	10.461	33.603	25.783	0.0592	93.5
30.0	10.335	33.639	25.833	0.0703	89.1
35.0	10.119	33.684	25.905	0.0810	85.2
40.0	10.077	33.697	25.922	0.0916	83.1
45.0	9.988	33.733	25.965	0.1021	87.4
50.0	9.865	33.778	26.021	0.1122	93.7
51.0	9.851	33.779	26.024	0.1142	93.5



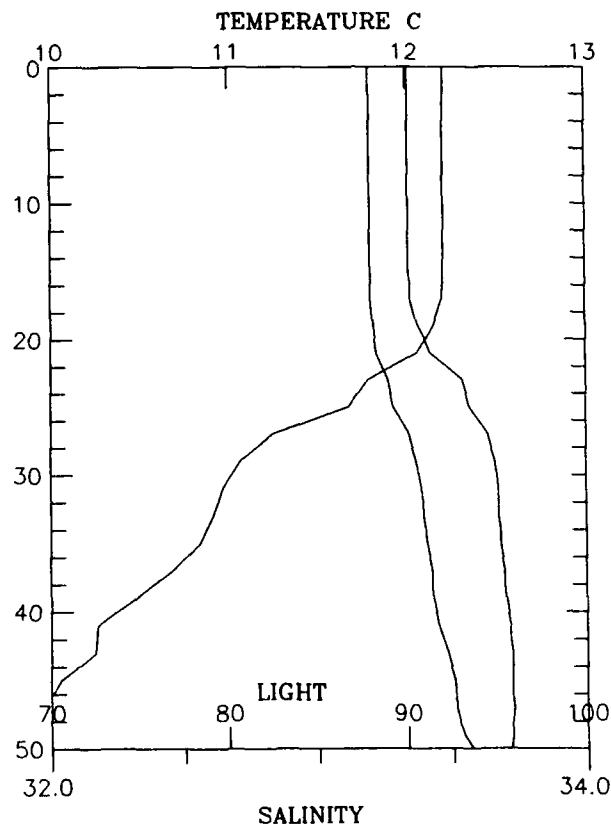
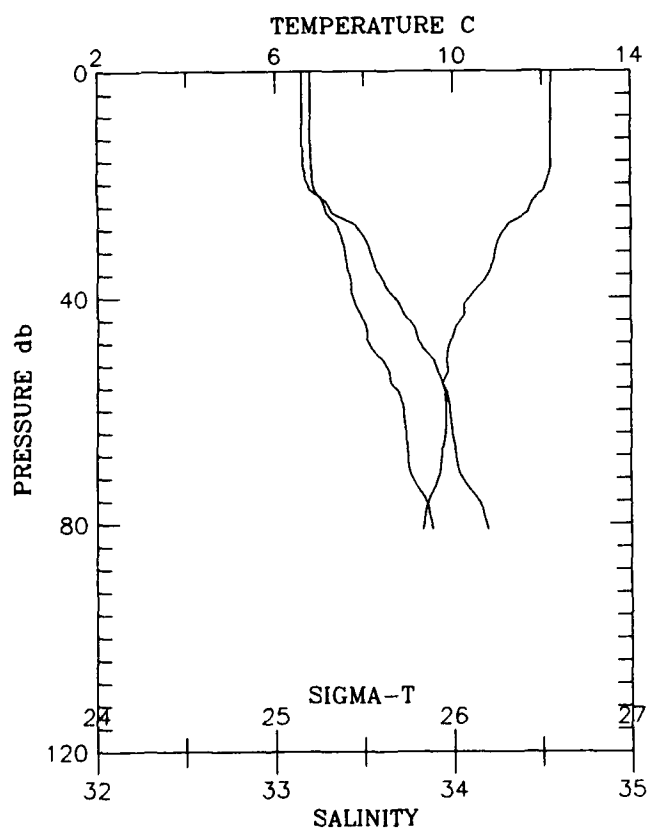
Cruise W8811 Station # 133 Depth m: 41 Time: 22 NOV 1988,0512  
 Position: 37 57.30'N 122 50.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.131	33.326	25.265	0.0000	79.8
6.0	12.122	33.326	25.266	0.0082	79.4
8.0	12.118	33.325	25.267	0.0136	79.3
10.0	12.113	33.325	25.268	0.0191	79.4
12.0	12.106	33.330	25.273	0.0245	78.7
14.0	12.099	33.336	25.279	0.0299	77.6
16.0	12.089	33.344	25.287	0.0353	77.1
18.0	12.048	33.367	25.313	0.0407	76.9
20.0	11.940	33.407	25.364	0.0460	78.4
22.0	11.760	33.447	25.428	0.0512	82.6
24.0	11.516	33.480	25.499	0.0563	87.1
26.0	11.163	33.524	25.597	0.0612	89.7
28.0	10.782	33.582	25.710	0.0660	91.7
30.0	10.573	33.620	25.777	0.0705	93.6
31.0	10.534	33.630	25.791	0.0727	94.2



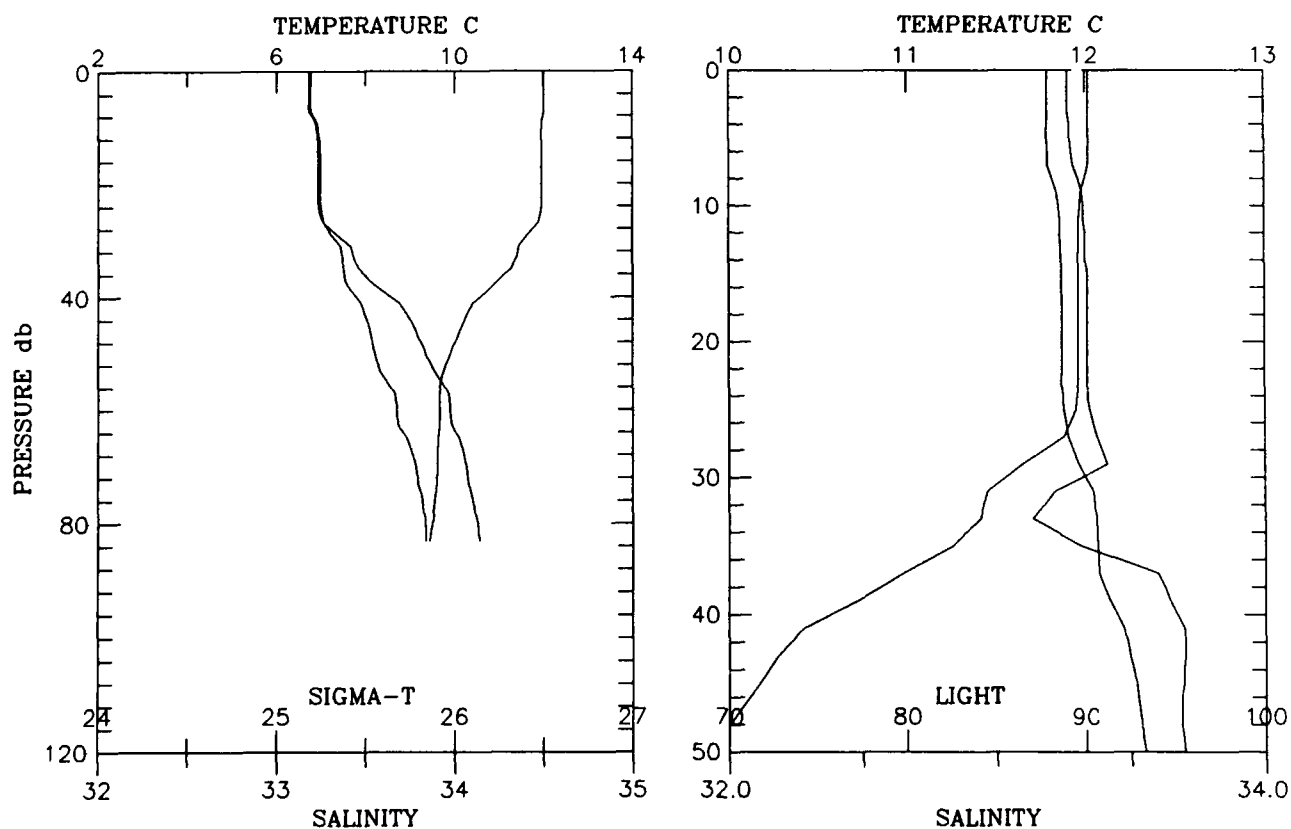
Cruise W8811 Station # 134 Depth m: 91 Time: 22 NOV 1988,0713  
 Position: 38 3.50'N 123 9.40'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.209	33.196	25.150	0.0000	90.1
5.0	12.206	33.197	25.151	0.0057	90.1
10.0	12.207	33.198	25.151	0.0198	90.1
15.0	12.203	33.199	25.152	0.0340	90.1
20.0	12.103	33.213	25.182	0.0481	91.0
25.0	11.674	33.281	25.315	0.0618	93.5
30.0	11.017	33.377	25.509	0.0746	95.0
35.0	10.835	33.406	25.564	0.0870	95.2
40.0	10.366	33.436	25.669	0.0990	95.6
45.0	10.055	33.507	25.777	0.1105	95.8
50.0	9.861	33.570	25.859	0.1215	95.7
55.0	9.744	33.644	25.936	0.1322	95.1
60.0	9.835	33.720	25.980	0.1425	92.0
65.0	9.801	33.734	25.997	0.1527	92.8
70.0	9.715	33.752	26.026	0.1628	85.5
75.0	9.488	33.829	26.123	0.1727	84.0
80.0	9.335	33.876	26.185	0.1822	78.6
81.0	9.313	33.882	26.193	0.1840	75.9



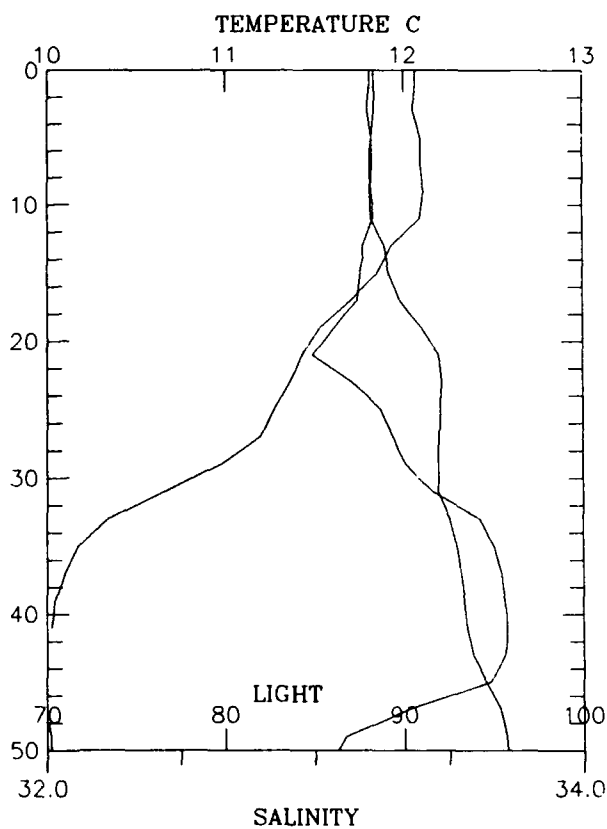
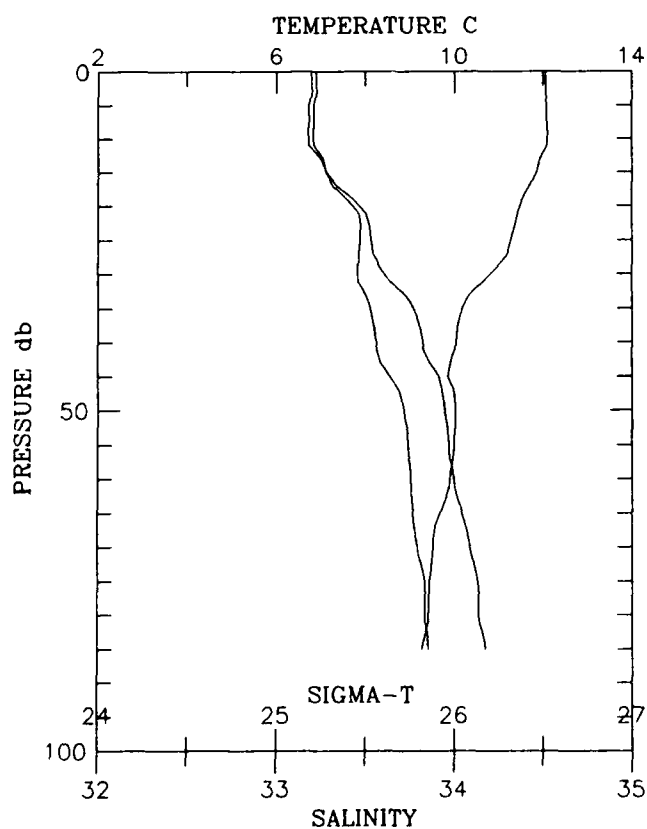
Cruise W8811 Station # 135 Depth m: 93 Time: 22 NOV 1988,0834  
 Position: 38 11.40'N 123 9.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.017	33.192	25.183	0.0000	89.00
5.0	12.017	33.190	25.181	0.0112	89.10
10.0	11.969	33.233	25.223	0.0251	89.90
15.0	11.959	33.244	25.234	0.0389	90.10
20.0	11.959	33.245	25.235	0.0527	90.10
25.0	11.945	33.250	25.241	0.0665	90.20
30.0	11.551	33.334	25.379	0.0800	89.80
35.0	11.254	33.376	25.466	0.0929	89.70
40.0	10.568	33.448	25.643	0.1052	95.10
45.0	10.169	33.519	25.767	0.1167	95.40
50.0	9.901	33.553	25.839	0.1278	95.50
55.0	9.678	33.622	25.930	0.1385	95.80
60.0	9.655	33.674	25.974	0.1489	95.70
65.0	9.626	33.734	26.026	0.1591	93.00
70.0	9.610	33.781	26.065	0.1691	88.50
75.0	9.571	33.814	26.097	0.1789	84.70
80.0	9.495	33.835	26.127	0.1885	80.00
83.0	9.434	33.838	26.139	0.1943	67.70



Cruise W8811 Station # 136 Depth m: 93 Time: 22 NOV 1988,0945  
 Position: 38 19.10'N 123 12.10'W Depth Deck Offset: 0.00

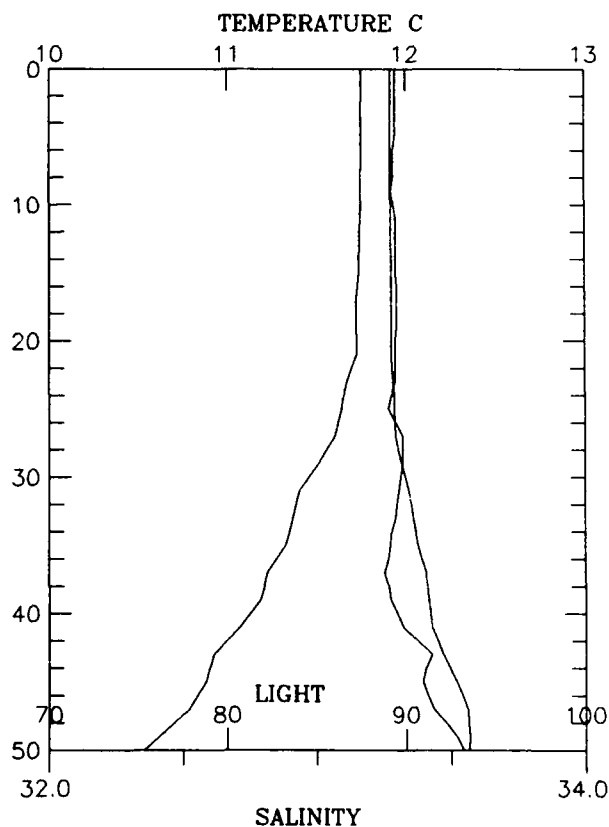
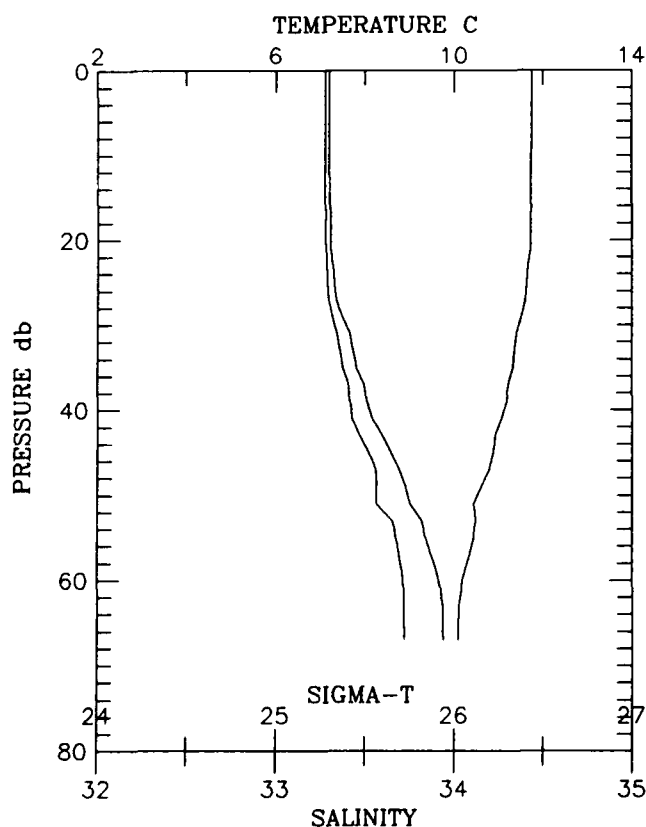
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.063	33.222	25.197	0.0000	88.10
5.0	12.094	33.213	25.184	0.0112	88.20
10.0	12.100	33.210	25.181	0.0252	88.30
15.0	11.852	33.278	25.280	0.0390	87.60
20.0	11.480	33.430	25.467	0.0521	85.50
25.0	11.273	33.468	25.534	0.0646	88.70
30.0	10.814	33.461	25.610	0.0768	90.80
35.0	10.171	33.528	25.774	0.0884	95.00
40.0	10.034	33.560	25.823	0.0995	95.70
45.0	9.857	33.637	25.912	0.1103	94.80
50.0	10.019	33.716	25.946	0.1208	86.30
55.0	9.998	33.743	25.971	0.1312	87.50
60.0	9.899	33.755	25.997	0.1414	85.10
65.0	9.679	33.768	26.044	0.1515	88.60
70.0	9.517	33.793	26.090	0.1614	91.00
75.0	9.438	33.833	26.134	0.1710	88.30
80.0	9.425	33.838	26.140	0.1806	88.10
85.0	9.281	33.856	26.178	0.1900	74.30





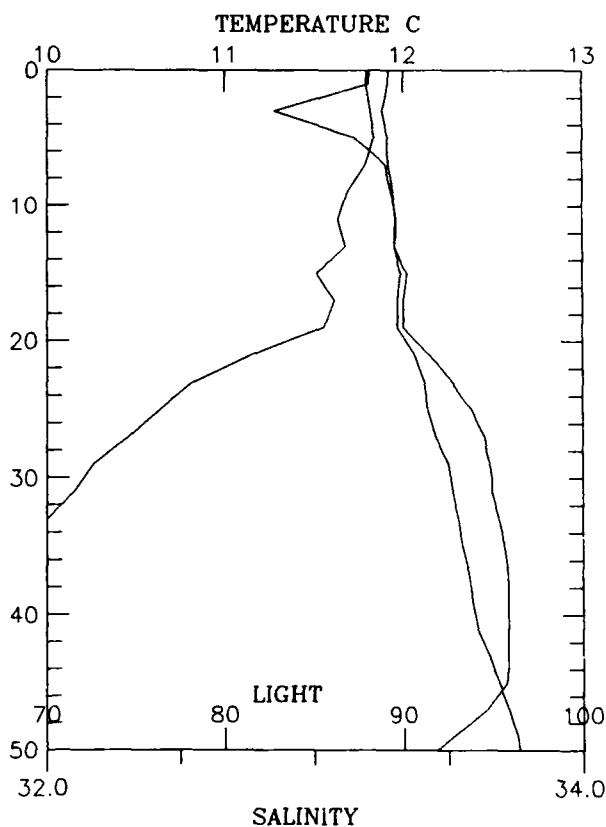
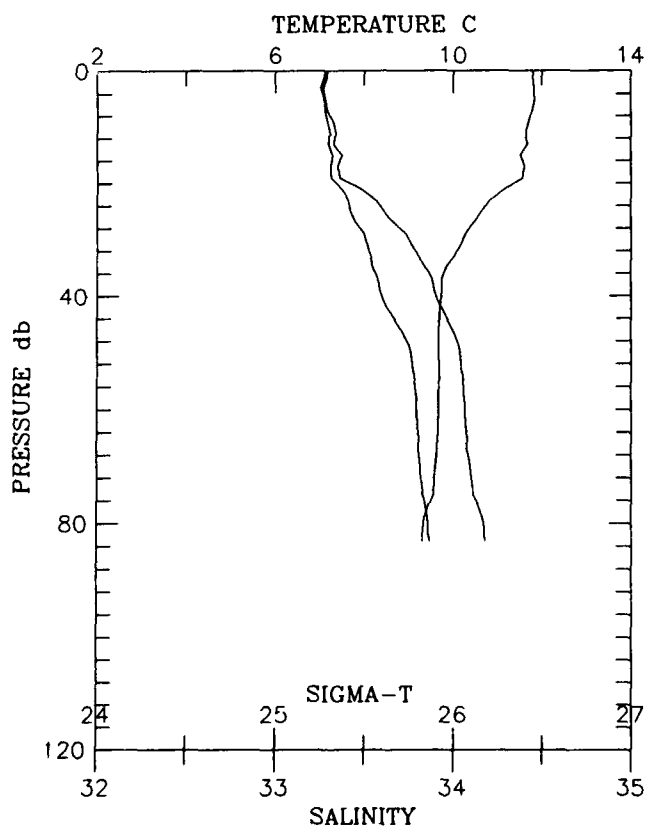
Cruise W8811 Station # 137 Depth m: 78 Time: 22 NOV 1988,1056  
 Position: 38 27.10'N 123 14.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.751	33.277	25.298	0.0000	89.40
5.0	11.751	33.278	25.298	0.0108	89.40
10.0	11.746	33.277	25.299	0.0242	89.30
15.0	11.737	33.279	25.302	0.0377	89.40
20.0	11.724	33.279	25.305	0.0511	89.40
25.0	11.639	33.289	25.328	0.0645	89.00
30.0	11.457	33.330	25.393	0.0777	89.70
35.0	11.328	33.377	25.453	0.0906	89.10
40.0	11.127	33.422	25.524	0.1032	89.50
45.0	10.879	33.520	25.645	0.1153	90.90
50.0	10.532	33.565	25.741	0.1269	93.20
55.0	10.440	33.675	25.843	0.1381	87.20
60.0	10.199	33.714	25.914	0.1488	86.00
65.0	10.098	33.719	25.936	0.1593	86.50
67.0	10.092	33.723	25.940	0.1635	86.10



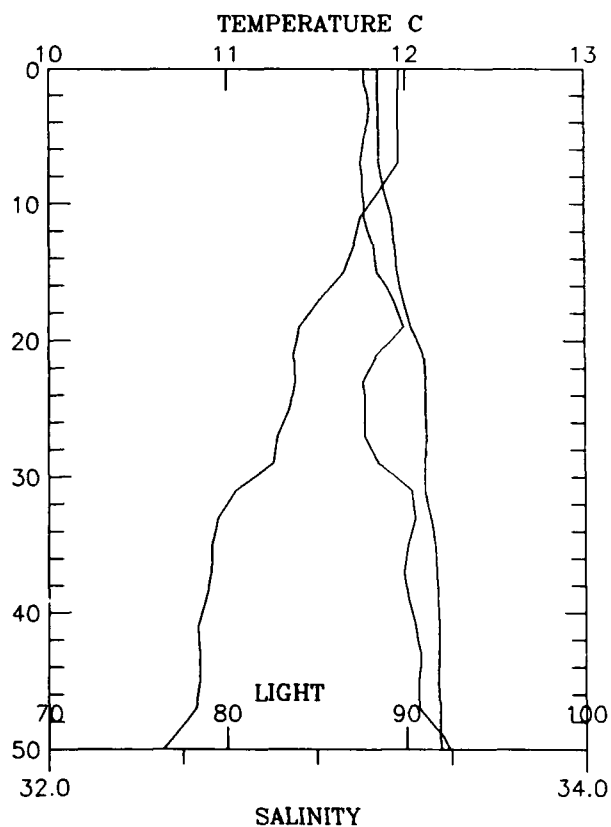
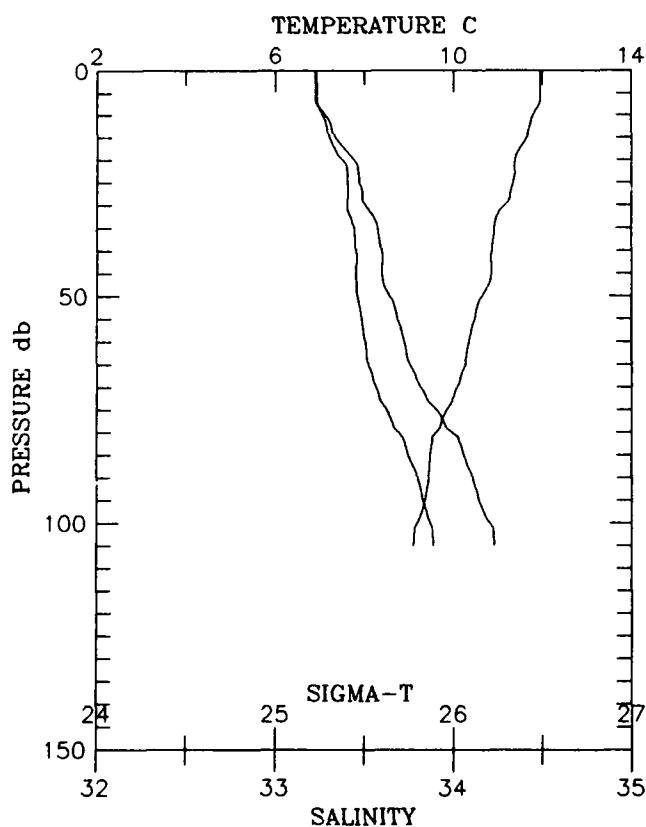
Cruise W8811 Station # 138 Depth m: 93 Time: 22 NOV 1988,1130  
 Position: 38 26.20'N 123 16.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.795	33.278	25.291	0.0000	88.10
5.0	11.836	33.274	25.280	0.0108	87.30
10.0	11.661	33.299	25.332	0.0243	89.50
15.0	11.515	33.322	25.377	0.0375	90.20
20.0	11.353	33.342	25.422	0.0507	90.70
25.0	10.634	33.423	25.612	0.0630	93.80
30.0	10.206	33.508	25.752	0.0747	94.90
35.0	9.829	33.551	25.849	0.0858	95.60
40.0	9.727	33.597	25.903	0.0965	95.80
45.0	9.687	33.687	25.979	0.1069	95.70
50.0	9.671	33.760	26.039	0.1170	91.80
55.0	9.680	33.785	26.057	0.1270	88.00
60.0	9.666	33.795	26.067	0.1369	86.90
65.0	9.646	33.804	26.077	0.1467	86.40
70.0	9.592	33.815	26.095	0.1565	87.10
75.0	9.549	33.828	26.112	0.1662	88.20
80.0	9.340	33.859	26.171	0.1757	76.80
83.0	9.306	33.865	26.180	0.1813	75.40



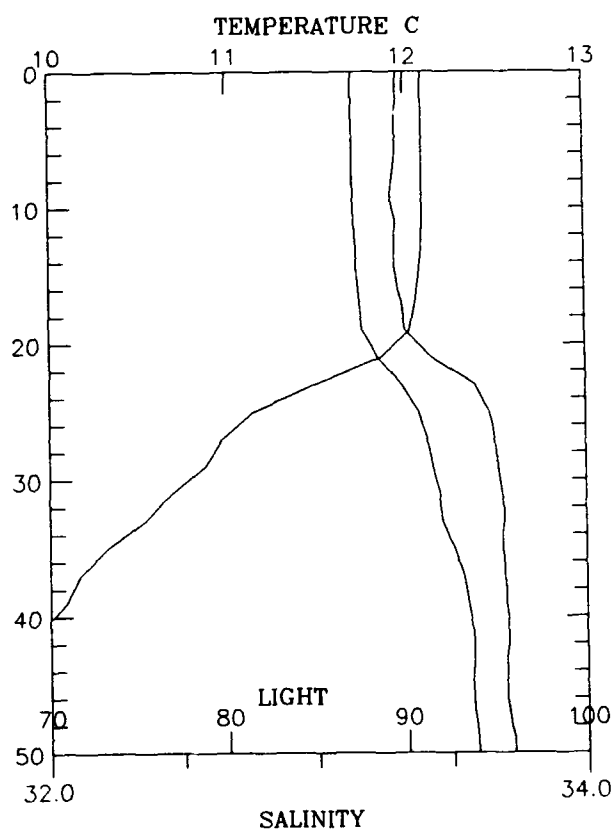
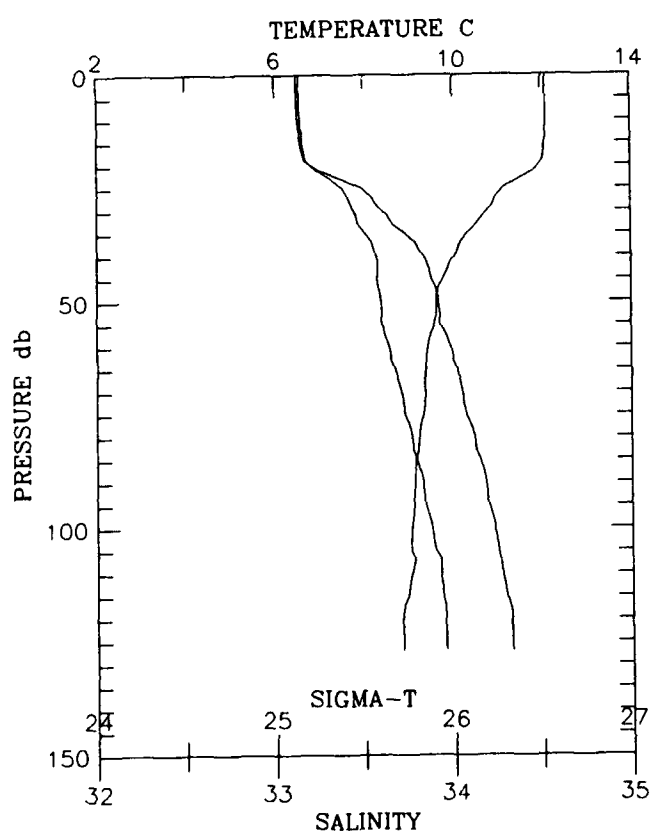
Cruise W8811 Station # 139 Depth m: 114 Time: 22 NOV 1988,1214  
 Position: 38 23.40'N 123 20.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.961	33.232	25.224	0.0000	87.70
10.0	11.802	33.268	25.281	0.0248	87.70
20.0	11.390	33.375	25.440	0.0512	89.20
30.0	11.153	33.404	25.506	0.0765	89.40
40.0	10.857	33.452	25.596	0.1009	90.30
50.0	10.639	33.461	25.641	0.1250	92.40
60.0	10.352	33.505	25.725	0.1483	93.80
70.0	10.082	33.565	25.818	0.1709	95.00
80.0	9.616	33.691	25.994	0.1923	95.50
90.0	9.443	33.799	26.107	0.2121	95.30
100.0	9.187	33.871	26.204	0.2311	92.40
105.0	9.110	33.887	26.229	0.2402	88.70



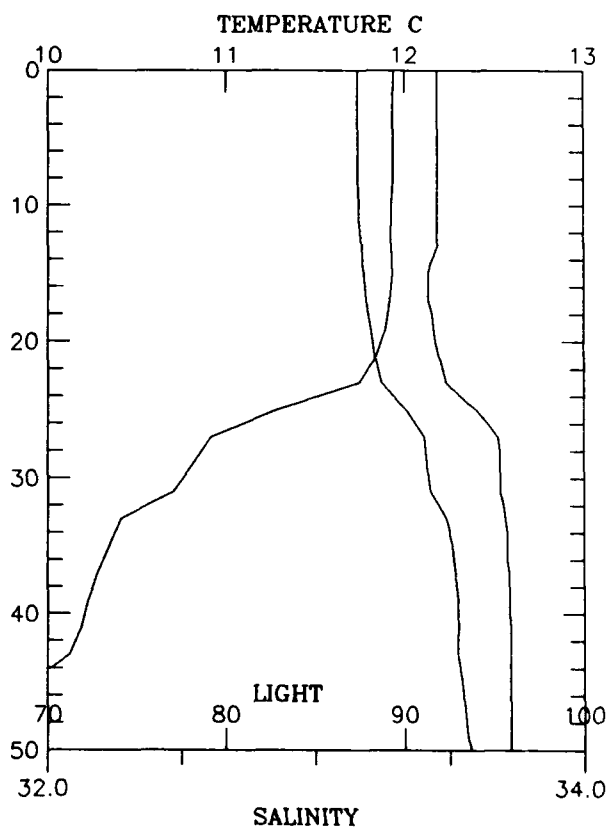
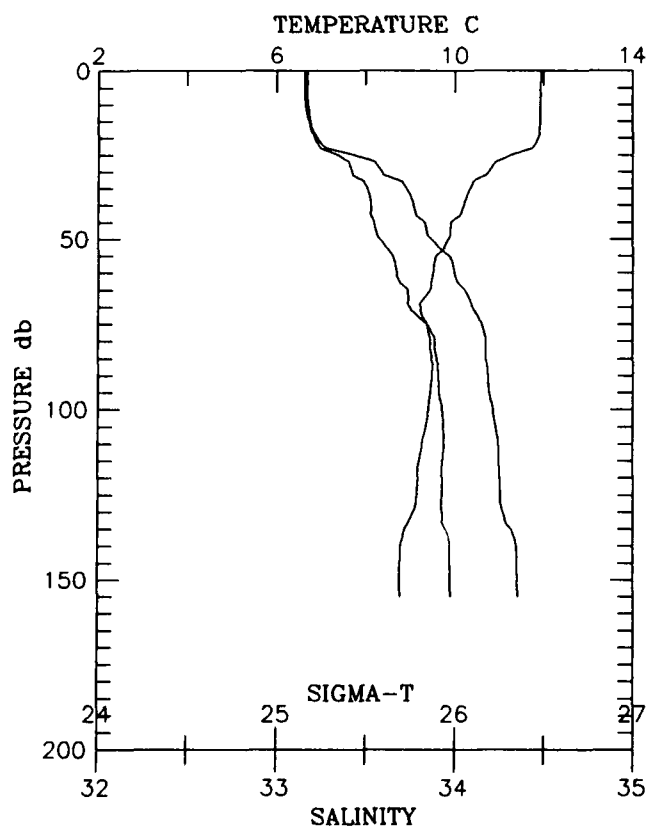
Cruise W8811 Station # 140 Depth m: 136 Time: 22 NOV 1988,1247  
 Position: 38 21.30'N 123 23.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.098	33.138	25.125	0.0000	89.60
10.0	12.099	33.142	25.129	0.0257	89.30
20.0	11.942	33.201	25.204	0.0541	90.70
30.0	10.777	33.442	25.602	0.0796	95.20
40.0	10.016	33.567	25.831	0.1026	95.60
50.0	9.627	33.593	25.916	0.1240	95.90
60.0	9.422	33.637	25.983	0.1449	96.00
70.0	9.360	33.707	26.048	0.1651	96.10
80.0	9.229	33.766	26.116	0.1848	96.10
90.0	9.115	33.825	26.180	0.2038	96.00
100.0	9.052	33.874	26.228	0.2223	96.00
110.0	9.045	33.927	26.271	0.2403	95.70
120.0	8.845	33.951	26.321	0.2580	92.30
127.0	8.840	33.953	26.324	0.2701	92.00



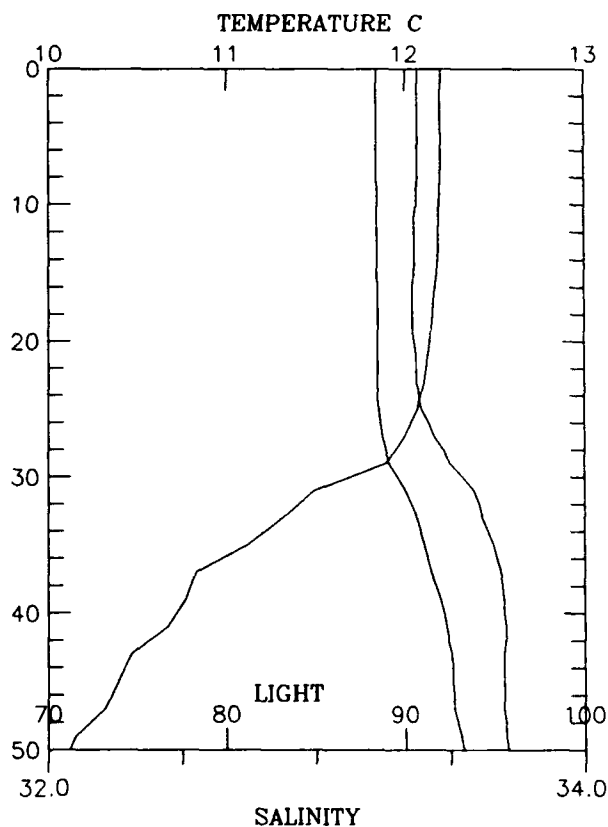
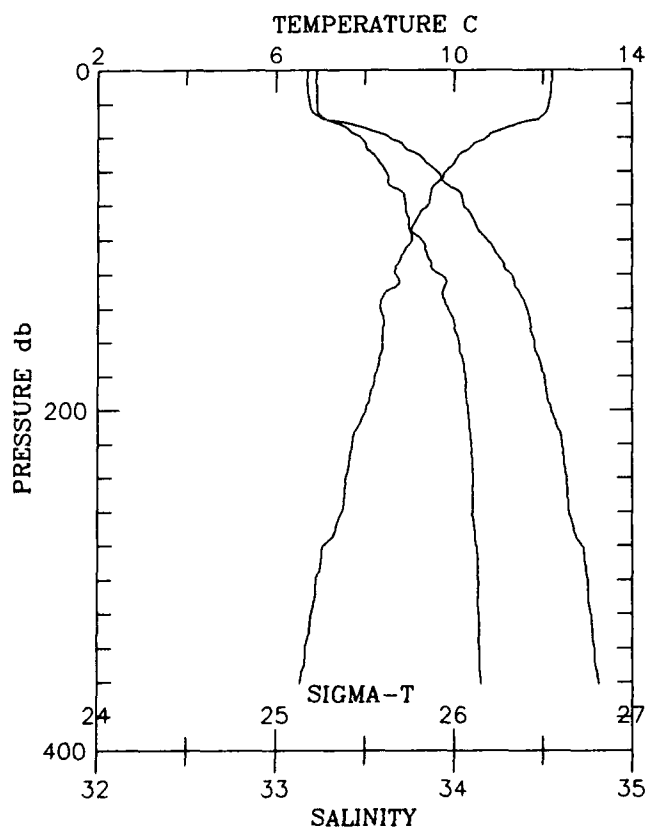
Cruise W8811 Station # 141 Depth m: 163 Time: 22 NOV 1988,1318  
 Position: 38 20.00'N 123 25.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.936	33.157	25.171	0.0000	91.80
10.0	11.927	33.162	25.176	0.0253	91.80
20.0	11.868	33.213	25.227	0.0532	91.70
30.0	10.758	33.421	25.589	0.0791	95.30
40.0	10.207	33.529	25.769	0.1022	95.80
50.0	9.856	33.581	25.869	0.1242	95.90
60.0	9.508	33.673	25.998	0.1450	95.60
70.0	9.229	33.747	26.101	0.1649	96.00
80.0	9.451	33.887	26.174	0.1839	96.10
90.0	9.483	33.907	26.185	0.2026	96.10
100.0	9.408	33.930	26.215	0.2212	96.10
110.0	9.265	33.940	26.246	0.2394	96.10
120.0	9.168	33.929	26.253	0.2575	96.00
130.0	9.066	33.929	26.269	0.2755	96.00
140.0	8.792	33.972	26.346	0.2930	93.40
150.0	8.770	33.976	26.353	0.3102	91.40
155.0	8.768	33.976	26.353	0.3188	91.40



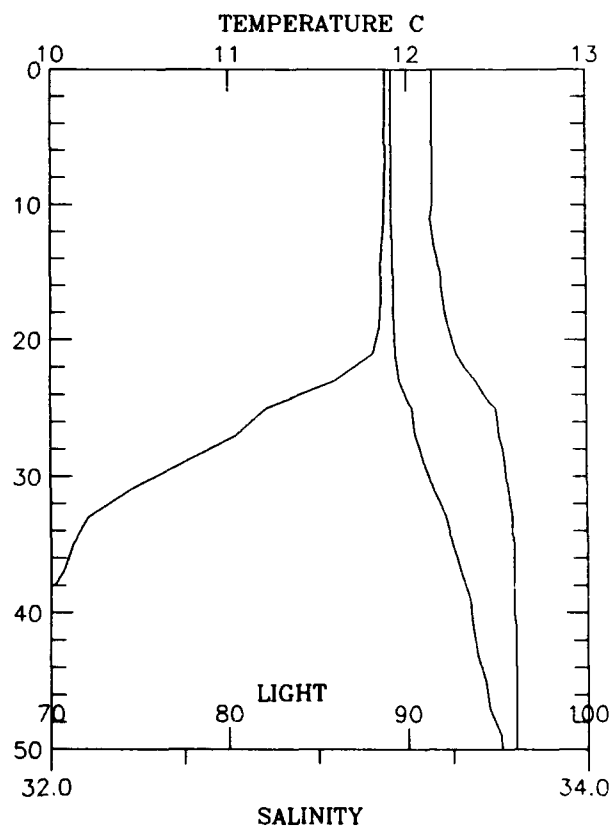
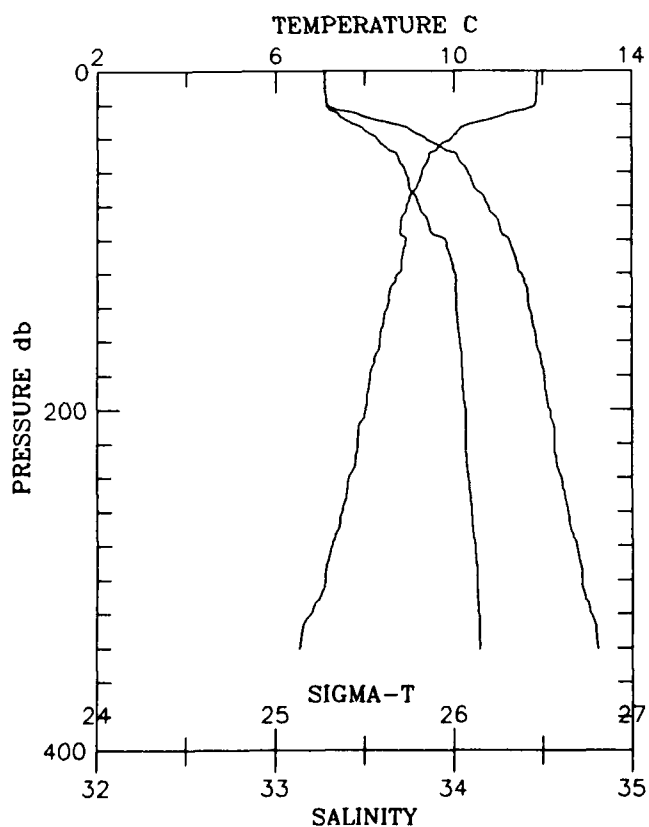
Cruise W8811 Station # 142 Depth m: 375 Time: 22 NOV 1988,1411  
 Position: 38 15.80'N 123 30.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.199	33.227	25.175	0.0000	90.70
10.0	12.189	33.228	25.178	0.0253	90.60
20.0	12.135	33.230	25.190	0.0533	90.50
30.0	11.693	33.303	25.329	0.0810	93.20
40.0	10.719	33.475	25.638	0.1060	95.50
50.0	10.120	33.549	25.799	0.1290	95.70
60.0	9.812	33.617	25.904	0.1507	95.60
80.0	9.415	33.728	26.056	0.1917	95.00
100.0	9.038	33.818	26.187	0.2302	96.10
150.0	8.410	34.002	26.429	0.3167	96.30
200.0	8.019	34.078	26.547	0.3963	96.50
250.0	7.540	34.103	26.637	0.4704	96.50
300.0	6.899	34.137	26.753	0.5408	94.20
361.0	6.531	34.151	26.813	0.6221	95.00



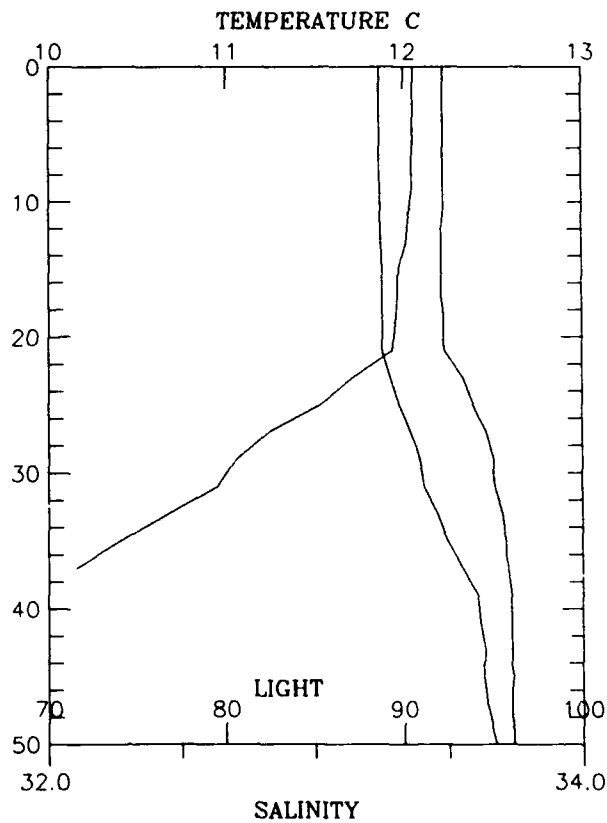
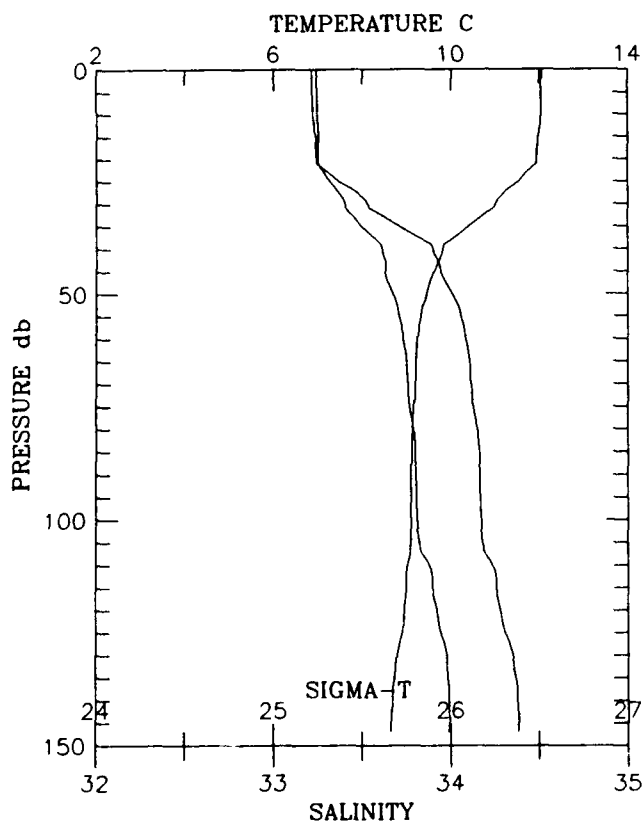
Cruise W8811 Station # 143 Depth m: 355 Time: 22 NOV 1988,1524  
 Position: 38 23.90'N 123 35.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.878	33.276	25.273	0.0000	91.40
10.0	11.873	33.276	25.274	0.0244	91.40
20.0	11.829	33.286	25.291	0.0515	92.50
30.0	10.594	33.412	25.611	0.0772	95.50
40.0	9.946	33.568	25.844	0.0999	95.90
50.0	9.438	33.681	26.016	0.1209	96.00
60.0	9.281	33.727	26.076	0.1408	96.00
80.0	8.941	33.807	26.194	0.1790	96.00
100.0	8.929	33.954	26.311	0.2151	96.20
150.0	8.409	34.021	26.444	0.2990	96.00
200.0	8.005	34.065	26.539	0.3781	95.50
250.0	7.583	34.092	26.622	0.4537	95.10
300.0	7.107	34.129	26.718	0.5251	95.60
341.0	6.541	34.148	26.810	0.5800	95.40



Cruise W8811 Station # 144 Depth m: 156 Time: 22 NOV 1988,1624  
 Position: 38 27.20'N 123 30.10'W Depth Deck Offset: 0.00

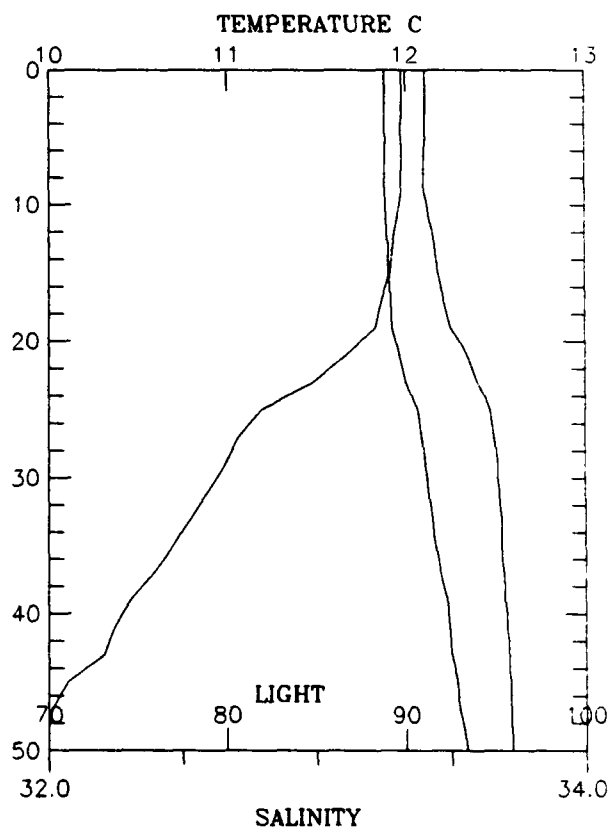
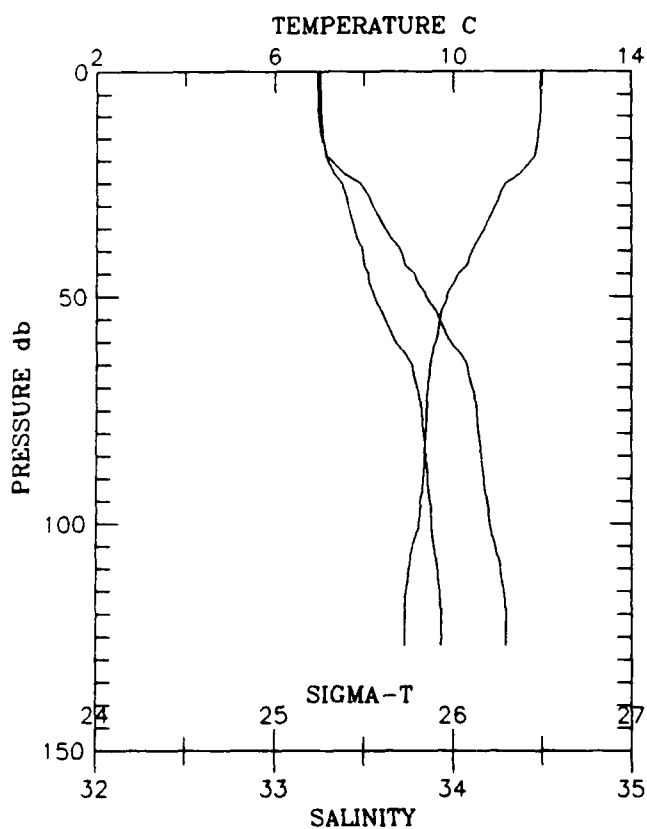
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.052	33.243	25.215	0.0000	92.2
10.0	12.037	33.245	25.220	0.0194	92.2
20.0	11.943	33.254	25.244	0.0469	92.2
30.0	11.003	33.400	25.529	0.0731	95.0
40.0	9.821	33.611	25.898	0.0962	96.0
50.0	9.453	33.674	26.007	0.1170	96.1
60.0	9.251	33.732	26.085	0.1368	96.1
70.0	9.194	33.756	26.114	0.1562	96.1
80.0	9.130	33.788	26.149	0.1753	96.1
90.0	9.104	33.803	26.165	0.1942	96.1
100.0	9.098	33.810	26.171	0.2130	96.1
110.0	9.021	33.876	26.235	0.2316	96.0
120.0	8.957	33.922	26.281	0.2496	96.0
130.0	8.783	33.975	26.350	0.2671	95.6
140.0	8.684	33.990	26.377	0.2841	93.5
147.0	8.655	33.992	26.383	0.2959	92.4





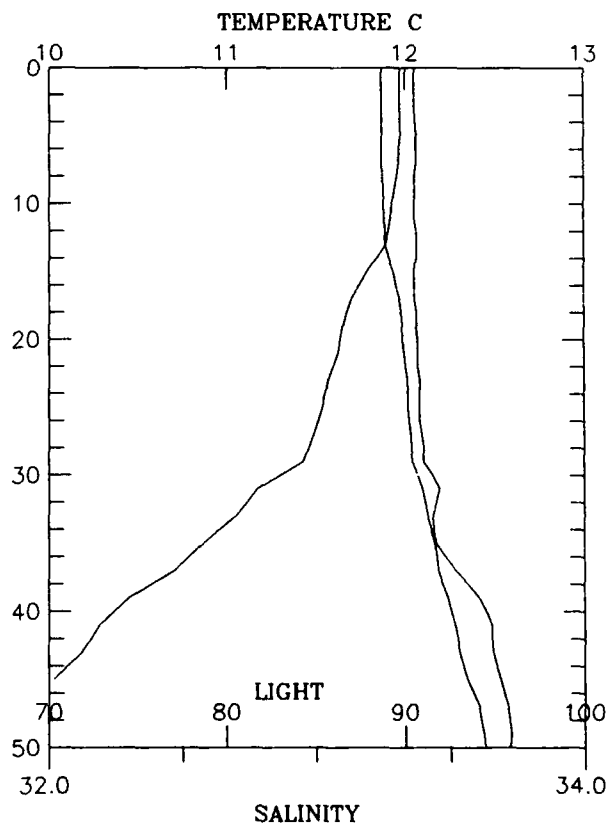
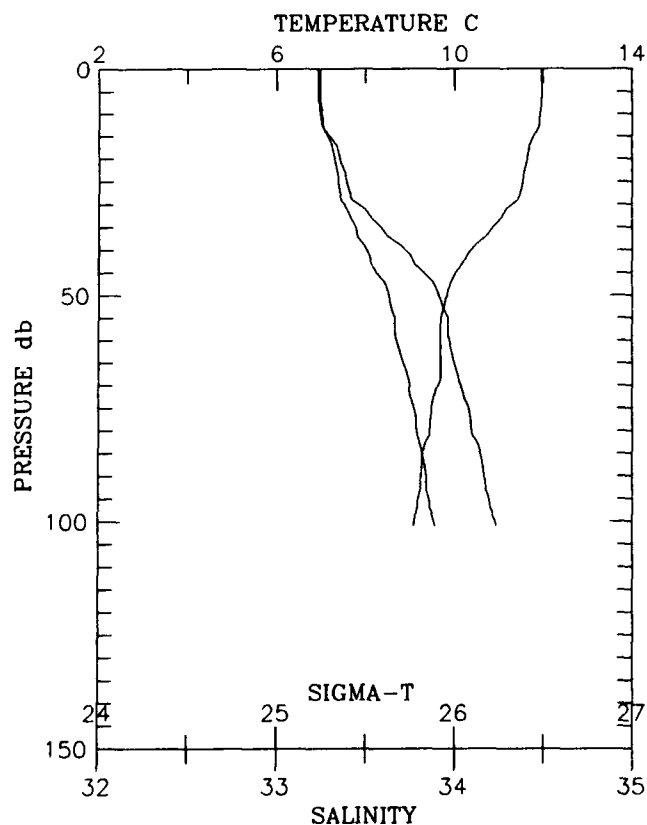
Cruise W8811 Station # 145 Depth m: 135 Time: 22 NOV 1988,1708  
 Position: 38 29.30'N 123 27.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.976	33.255	25.239	0.0000	91.1
10.0	11.962	33.258	25.244	0.0192	91.2
20.0	11.749	33.296	25.313	0.0465	93.0
30.0	10.940	33.410	25.548	0.0720	95.1
40.0	10.410	33.489	25.703	0.0959	95.6
50.0	9.858	33.558	25.850	0.1184	95.9
60.0	9.608	33.679	25.986	0.1395	96.0
70.0	9.431	33.798	26.108	0.1592	95.6
80.0	9.381	33.833	26.144	0.1784	95.3
90.0	9.327	33.857	26.171	0.1973	95.2
100.0	9.226	33.878	26.204	0.2159	95.1
110.0	9.003	33.910	26.264	0.2341	92.5
120.0	8.920	33.932	26.295	0.2519	87.5
127.0	8.921	33.932	26.294	0.2642	85.8



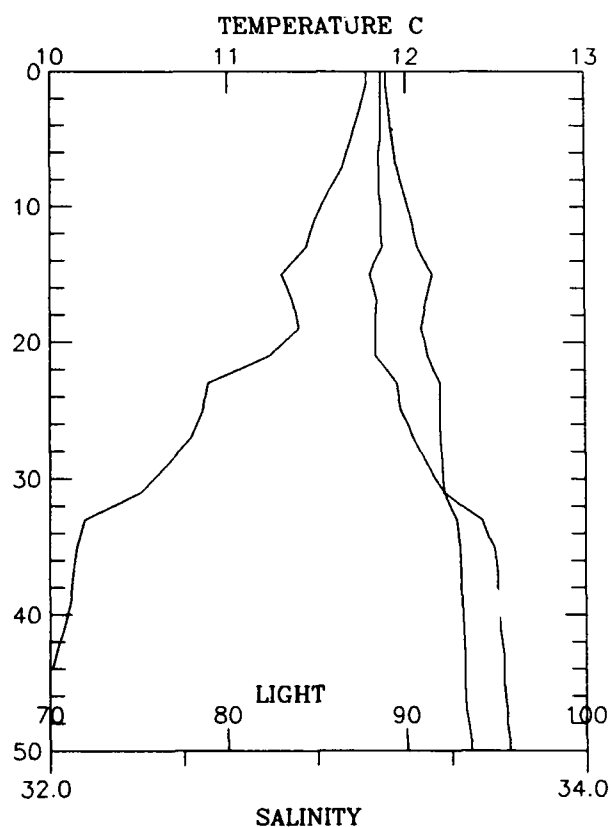
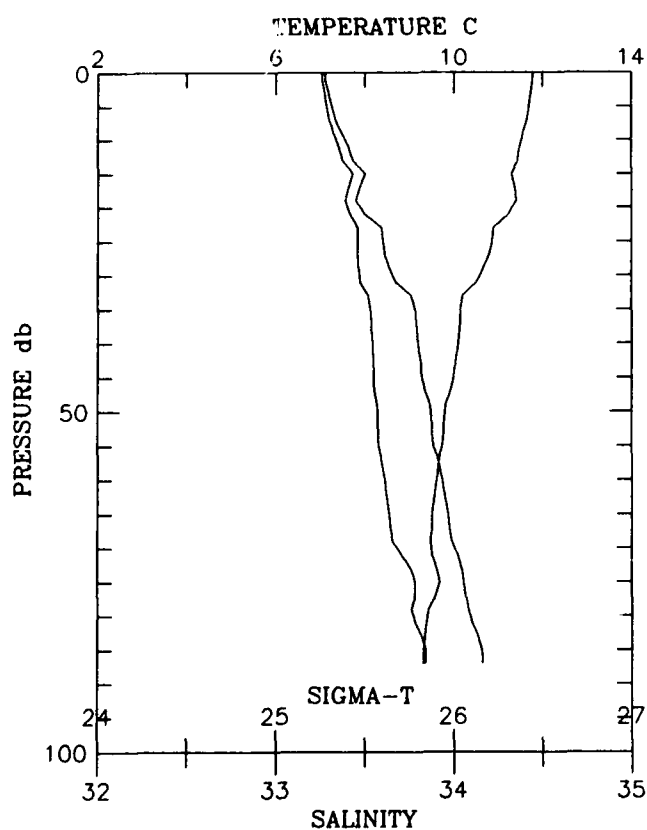
Cruise W8811 Station # 146 Depth m: 112 Time: 22 NOV 1988,1745  
 Position: 38 31.10'N 123 24.90'W Depth Deck Offset: 0.00

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0		11.971	33.246	25.233	0.0000	90.5
10.0		11.928	33.253	25.246	0.0193	90.5
20.0		11.637	33.324	25.355	0.0462	90.7
30.0		11.300	33.378	25.459	0.0722	91.5
40.0		10.367	33.503	25.722	0.0965	94.5
50.0		9.822	33.629	25.911	0.1185	95.8
60.0		9.679	33.674	25.971	0.1393	95.8
70.0		9.632	33.745	26.034	0.1597	95.4
80.0		9.444	33.786	26.097	0.1793	95.5
90.0		9.250	33.840	26.170	0.1984	94.0
100.0		9.099	33.886	26.230	0.2170	88.6
101.0		9.082	33.894	26.239	0.2188	86.7



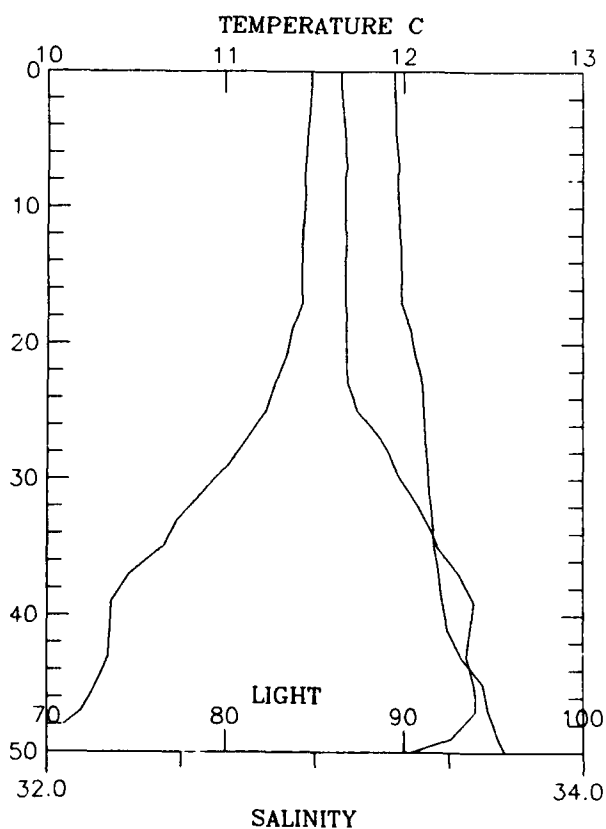
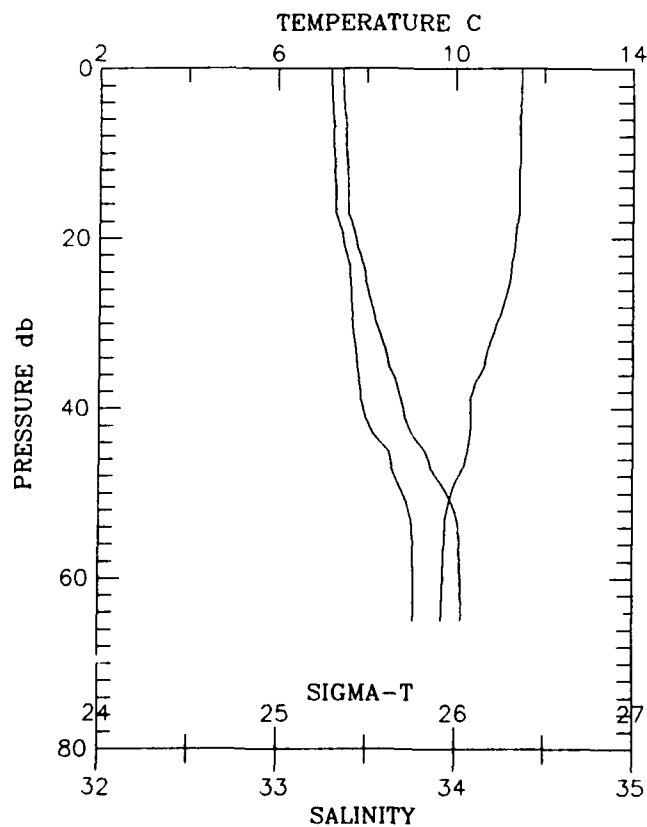
Cruise W8811 Station # 147 Depth m: 97 Time: 22 NOV 1988, 1824  
 Position: 38 32.50'N 123 23.00'W Depth Deck Offset: 0.00

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0		11.783	33.260	25.279	0.0000	88.6
5.0		11.698	33.285	25.314	0.0054	88.6
10.0		11.526	33.341	25.389	0.0186	88.6
15.0		11.304	33.431	25.500	0.0314	88.0
20.0		11.317	33.402	25.474	0.0441	88.3
25.0		10.861	33.459	25.601	0.0563	89.7
30.0		10.585	33.469	25.657	0.0683	91.6
35.0		10.149	33.532	25.781	0.0797	94.9
40.0		10.095	33.541	25.797	0.0909	95.2
45.0		9.994	33.549	25.821	0.1019	95.4
50.0		9.802	33.571	25.870	0.1128	95.7
55.0		9.748	33.580	25.885	0.1236	95.9
60.0		9.606	33.612	25.934	0.1342	95.9
65.0		9.515	33.639	25.970	0.1446	95.9
70.0		9.497	33.681	26.006	0.1549	95.7
75.0		9.685	33.784	26.056	0.1649	87.8
80.0		9.403	33.771	26.092	0.1747	94.6
85.0		9.321	33.841	26.159	0.1843	82.9
87.0		9.317	33.842	26.161	0.1881	78.4



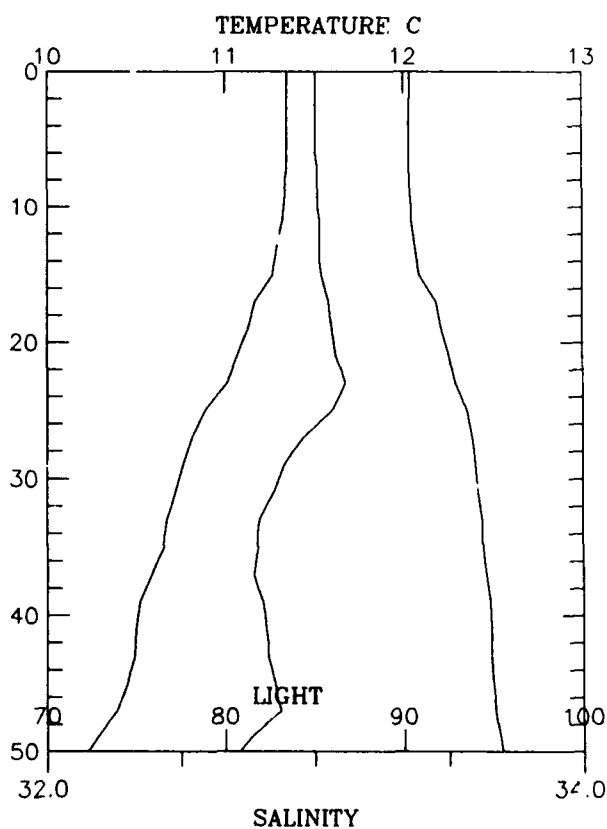
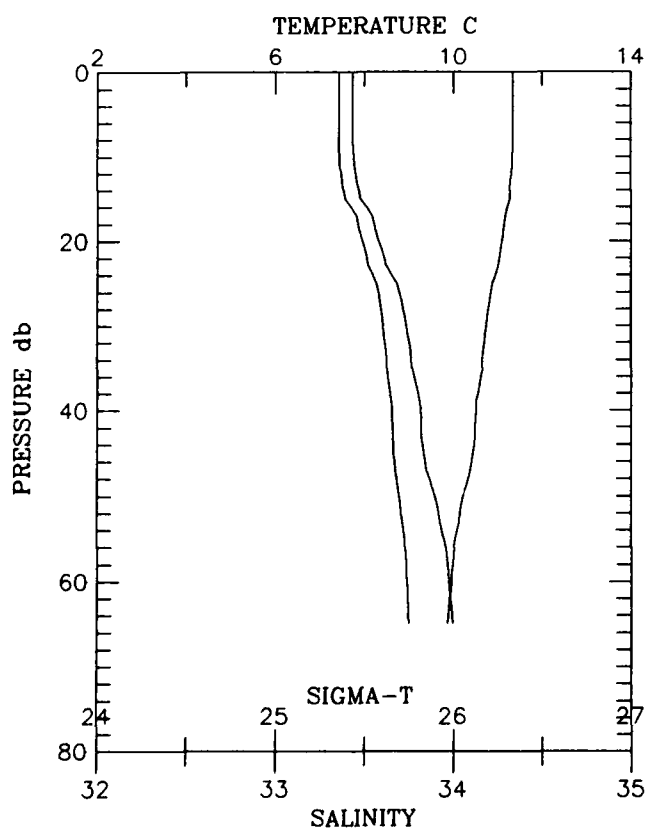
Cruise W8811 Station # 148 Depth m: 79 Time: 22 NOV 1988, 1846  
 Position: 38 33.50'N 123 21.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.481	33.298	25.364	0.0000	86.5
5.0	11.459	33.305	25.373	0.0052	86.7
10.0	11.445	33.313	25.382	0.0183	86.7
15.0	11.429	33.325	25.394	0.0314	86.7
20.0	11.357	33.367	25.440	0.0443	86.8
25.0	11.229	33.409	25.496	0.0570	87.4
30.0	10.941	33.424	25.559	0.0693	89.8
35.0	10.651	33.447	25.628	0.0814	91.9
40.0	10.356	33.485	25.709	0.0931	93.8
45.0	10.276	33.626	25.832	0.1044	93.9
50.0	9.932	33.706	25.953	0.1151	90.4
55.0	9.771	33.762	26.024	0.1253	84.9
60.0	9.742	33.767	26.033	0.1354	84.9
65.0	9.712	33.767	26.038	0.1454	84.7



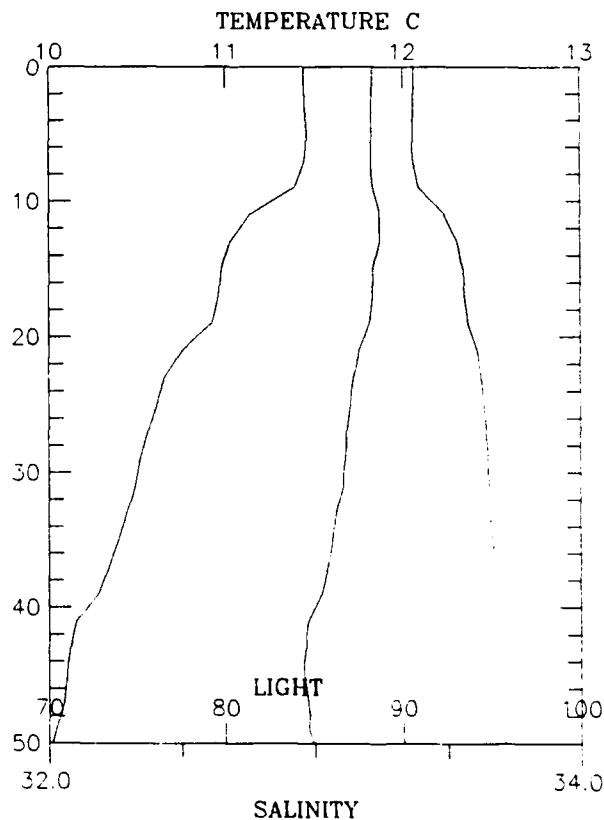
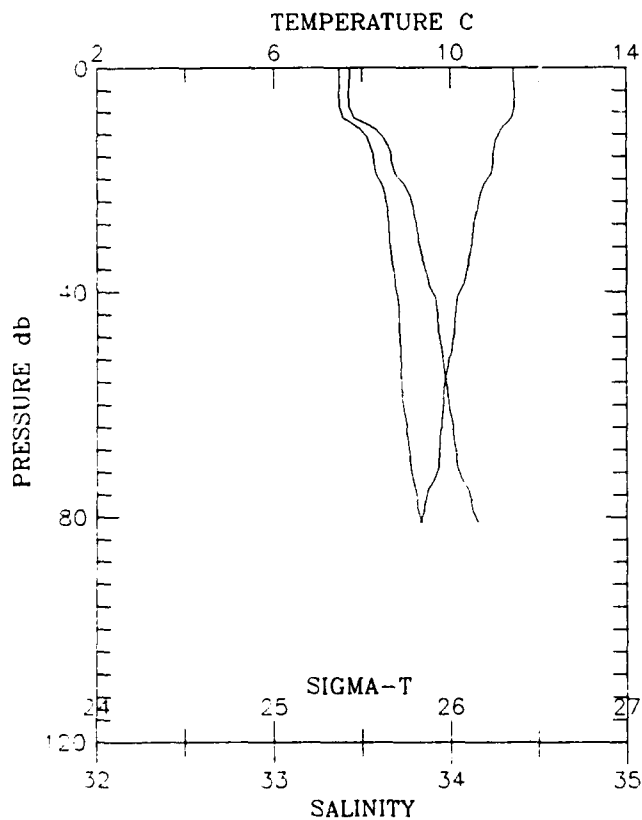
Cruise W8811 Station # 149 Depth m: 77 Time: 22 NOV 1988,1950  
 Position: 38 39.90'N 123 27.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.348	33.357	25.434	0.0000	85.1
5.0	11.349	33.356	25.433	0.0051	85.1
10.0	11.330	33.361	25.440	0.0179	85.2
15.0	11.266	33.390	25.475	0.0307	85.4
20.0	11.099	33.488	25.581	0.0430	86.1
25.0	10.885	33.569	25.683	0.0549	86.0
30.0	10.741	33.605	25.736	0.0664	83.0
35.0	10.652	33.626	25.768	0.0777	81.8
40.0	10.507	33.655	25.816	0.0889	82.2
45.0	10.448	33.664	25.833	0.0999	82.8
50.0	10.229	33.697	25.896	0.1107	80.8
55.0	10.040	33.727	25.952	0.1212	79.5
60.0	9.955	33.739	25.976	0.1316	79.5
65.0	9.881	33.750	25.996	0.1418	71.9



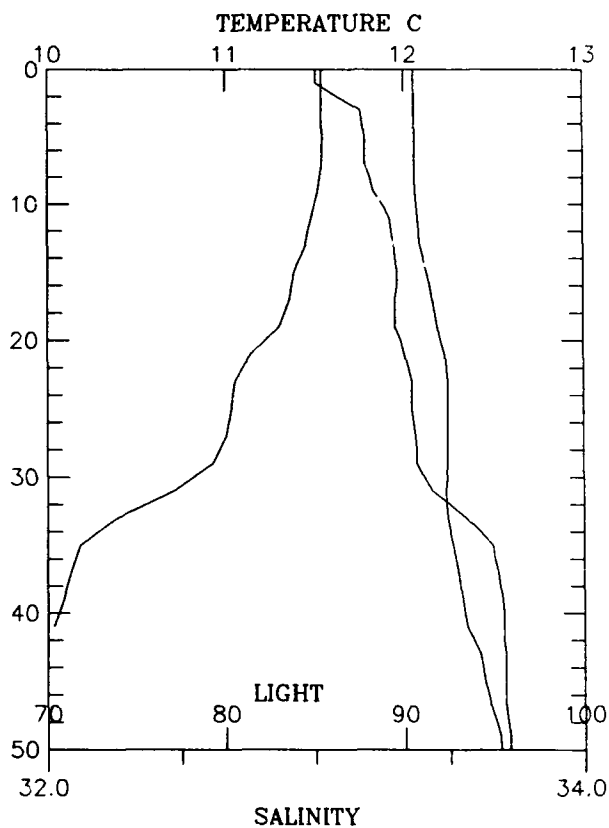
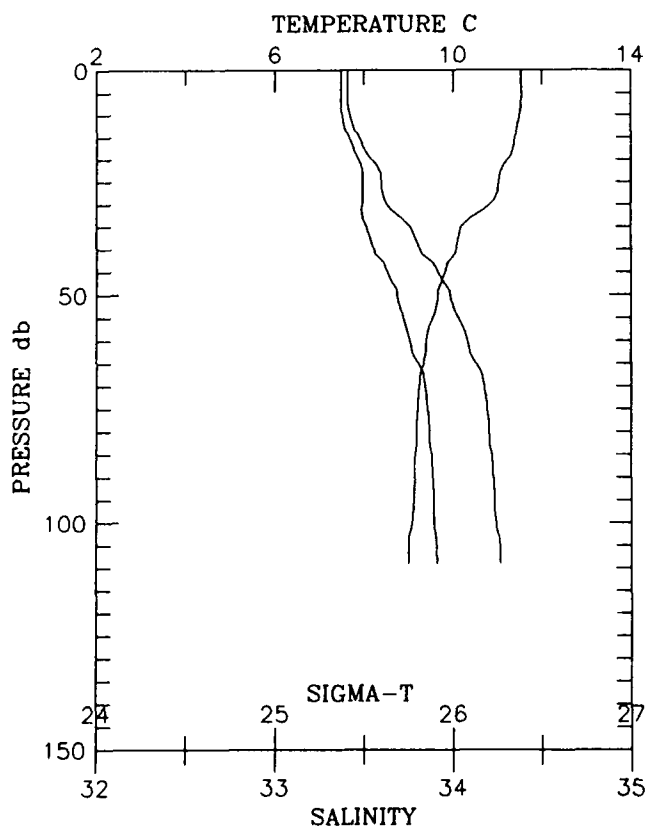
Cruise W8811 Station # 150 Depth m: 89 Time: 22 NOV 1988,2025  
 Position: 38 39.10'N 123 29.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.441	33.374	25.431	0.0000	88.3
5.0	11.455	33.369	25.424	0.0051	88.2
10.0	11.266	33.440	25.513	0.0179	88.5
15.0	10.978	33.557	25.657	0.0299	88.3
20.0	10.840	33.592	25.708	0.0416	87.8
25.0	10.611	33.636	25.783	0.0529	87.0
30.0	10.501	33.652	25.814	0.0640	86.6
35.0	10.391	33.667	25.845	0.0750	86.0
40.0	10.215	33.692	25.895	0.0857	85.0
45.0	10.100	33.707	25.926	0.0963	84.4
50.0	10.017	33.714	25.945	0.1068	84.9
55.0	9.893	33.717	25.968	0.1172	86.6
60.0	9.828	33.730	25.989	0.1274	86.9
65.0	9.772	33.752	26.016	0.1376	86.1
70.0	9.730	33.769	26.036	0.1476	85.0
75.0	9.490	33.798	26.098	0.1576	85.8
80.0	9.356	33.827	26.143	0.1672	84.1
81.0	9.315	33.838	26.158	0.1691	81.9



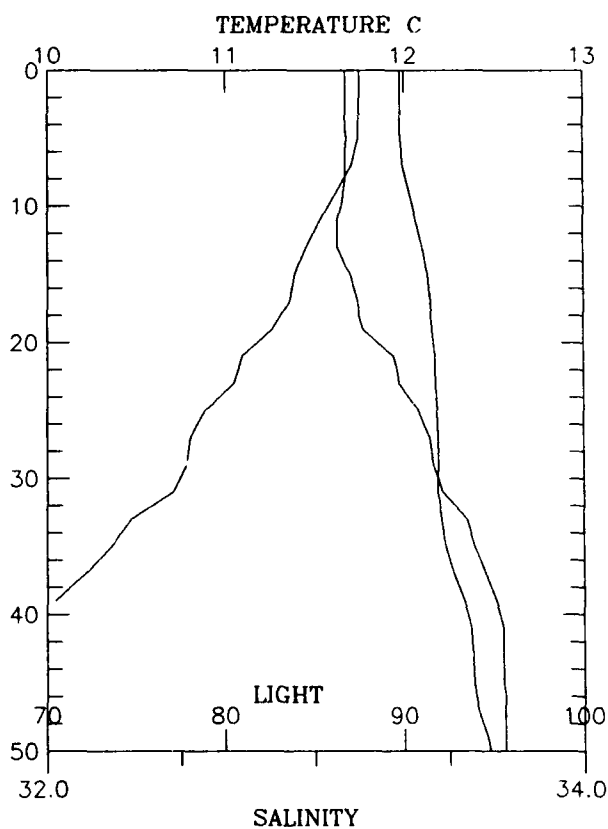
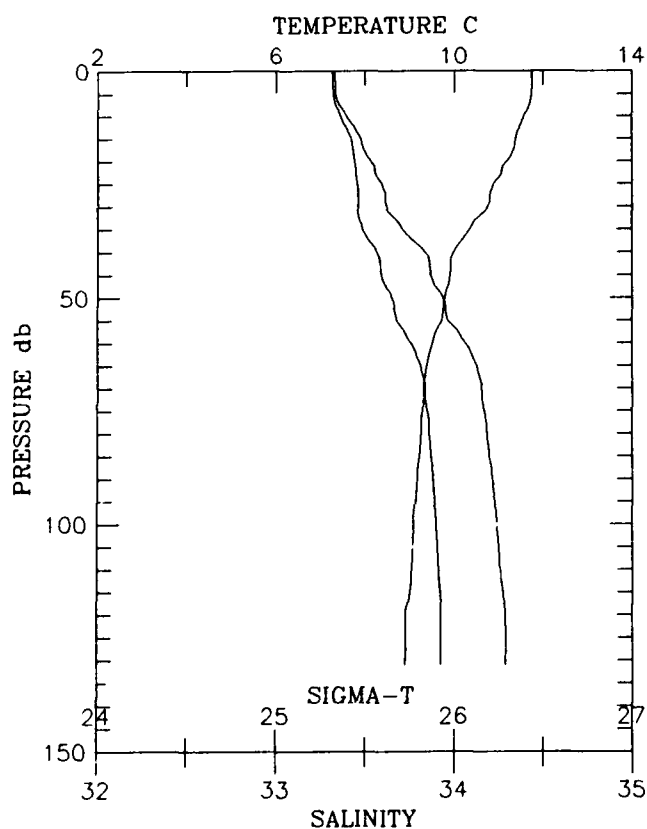
Cruise W8811 Station # 151 Depth m: 117 Time: 22 NOV 1988,2109  
 Position: 38 37.00'N 123 32.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.540	33.370	25.409	0.0000	85.10
10.0	11.500	33.379	25.424	0.0233	88.80
20.0	11.220	33.469	25.544	0.0485	89.80
30.0	10.818	33.490	25.632	0.0727	91.10
40.0	10.060	33.554	25.813	0.0954	95.50
50.0	9.655	33.686	25.984	0.1166	95.80
60.0	9.403	33.758	26.081	0.1367	95.10
70.0	9.235	33.841	26.174	0.1558	95.50
80.0	9.177	33.867	26.203	0.1744	95.20
90.0	9.128	33.884	26.225	0.1927	94.50
100.0	9.071	33.892	26.240	0.2109	92.30
109.0	8.996	33.911	26.266	0.2271	84.60



Cruise W8811 Station # 152 Depth m: 139 Time: 22 NOV 1988, 2145  
 Position: 38 35.30'N 123 33.70'W Depth Deck Offset: 0.00

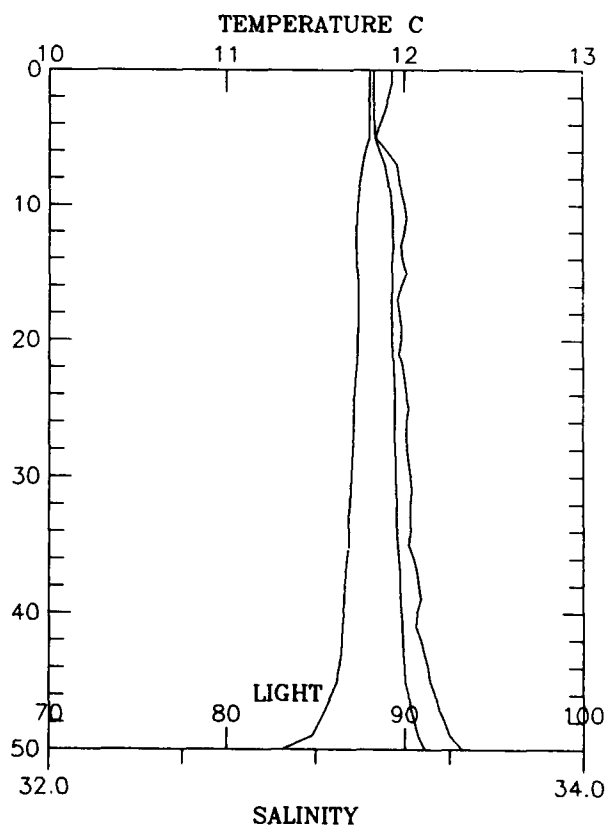
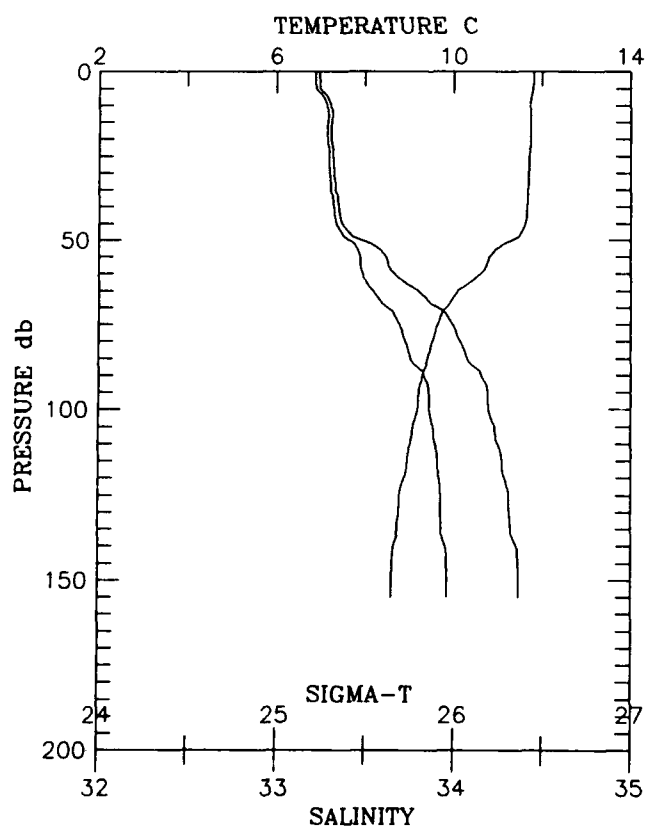
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.753	33.318	25.329	0.0000	86.70
10.0	11.578	33.364	25.398	0.0096	86.50
20.0	11.179	33.442	25.531	0.0350	88.50
30.0	10.744	33.457	25.620	0.0592	91.90
40.0	9.984	33.567	25.836	0.0822	95.30
50.0	9.782	33.650	25.935	0.1037	95.60
60.0	9.505	33.756	26.063	0.1242	95.60
70.0	9.319	33.837	26.156	0.1434	95.30
80.0	9.255	33.861	26.186	0.1621	95.00
90.0	9.168	33.881	26.216	0.1806	94.40
100.0	9.090	33.898	26.242	0.1989	93.80
110.0	9.043	33.913	26.260	0.2169	93.60
120.0	8.911	33.924	26.290	0.2347	84.70
130.0	8.905	33.923	26.290	0.2524	83.50
131.0	8.904	33.923	26.290	0.2542	83.40





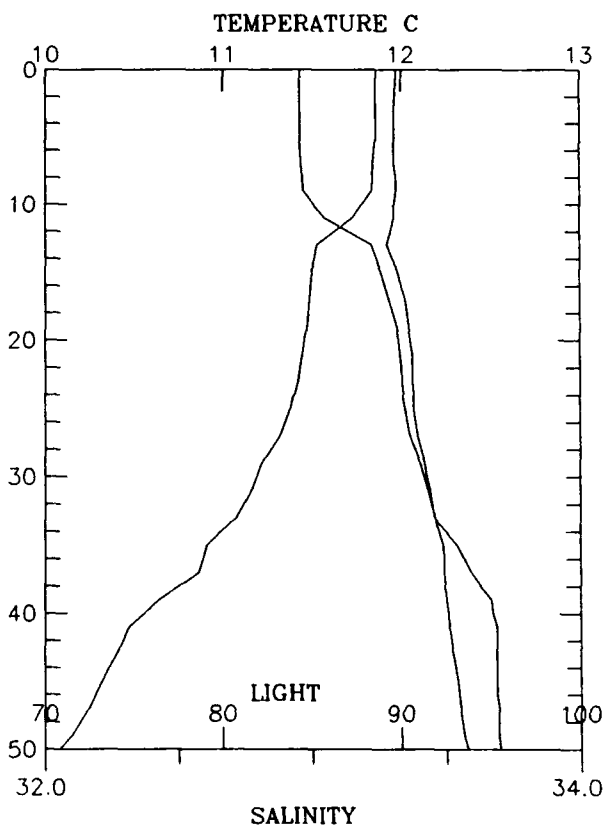
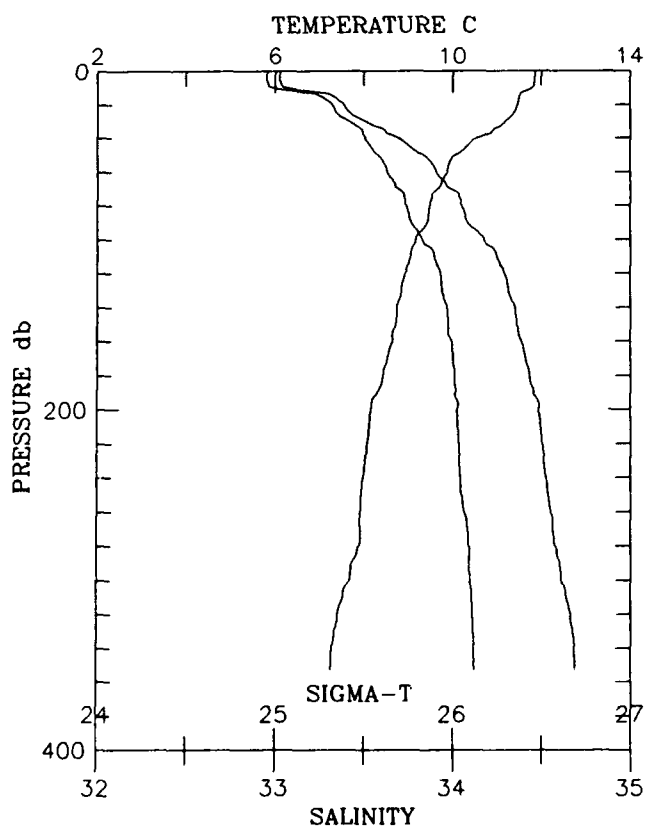
Cruise W8811 Station # 153 Depth m: 162 Time: 22 NOV 1988, 2226  
 Position: 38 33.20'N 123 36.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.805	33.218	25.242	0.0000	89.3
10.0	11.738	33.284	25.306	0.0190	90.0
20.0	11.739	33.287	25.308	0.0459	89.8
30.0	11.701	33.300	25.325	0.0726	90.3
40.0	11.658	33.321	25.349	0.0993	90.7
50.0	11.313	33.408	25.480	0.1254	93.2
60.0	10.609	33.487	25.667	0.1496	93.2
70.0	9.830	33.627	25.909	0.1720	95.7
80.0	9.525	33.729	26.039	0.1925	95.9
90.0	9.297	33.832	26.156	0.2120	95.3
100.0	9.188	33.864	26.199	0.2307	94.5
110.0	9.024	33.898	26.252	0.2489	94.0
120.0	8.888	33.917	26.288	0.2668	93.5
130.0	8.769	33.929	26.316	0.2843	93.2
140.0	8.653	33.953	26.353	0.3017	91.8
150.0	8.615	33.965	26.368	0.3187	87.5
155.0	8.613	33.965	26.369	0.3272	87.0



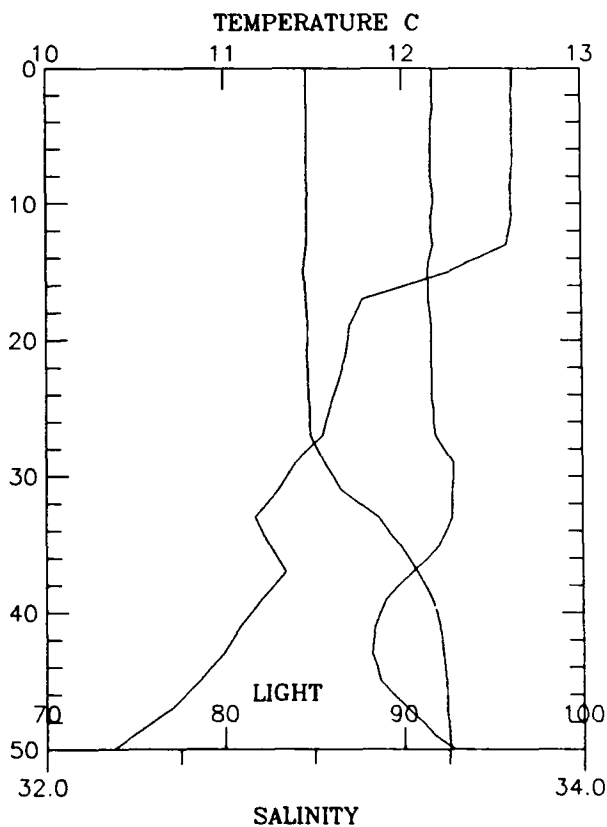
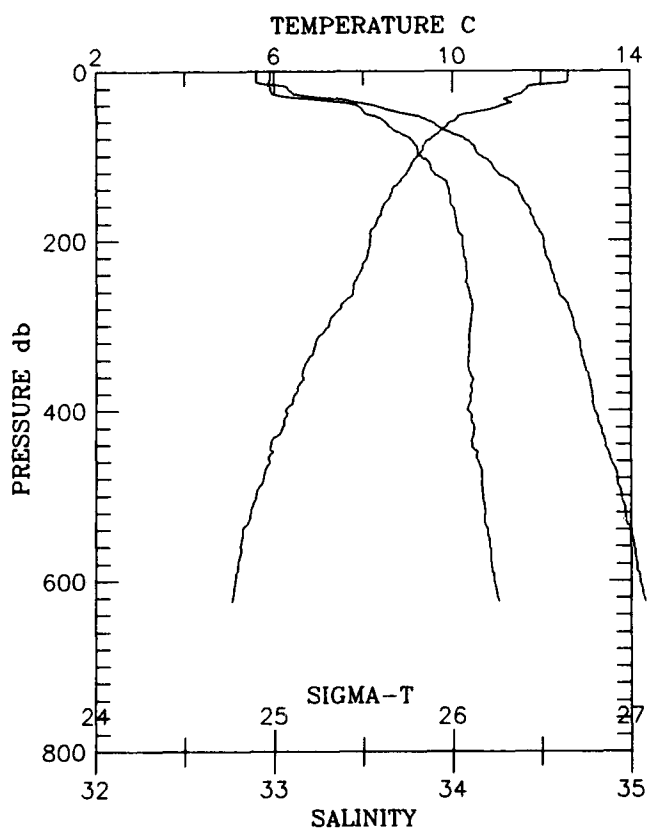
Cruise W8811 Station # 154 Depth m: 385 Time: 22 NOV 1988,2309  
 Position: 38 30.90'N 123 39.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.858	32.955	25.028	0.0000	89.7
10.0	11.783	33.006	25.082	0.0206	89.6
20.0	11.458	33.322	25.387	0.0476	90.5
30.0	11.188	33.417	25.510	0.0732	91.4
40.0	10.553	33.506	25.691	0.0973	95.1
50.0	10.080	33.577	25.828	0.1200	95.5
60.0	9.868	33.631	25.906	0.1415	95.7
80.0	9.486	33.739	26.053	0.1824	95.9
100.0	9.162	33.827	26.174	0.2213	96.0
150.0	8.710	33.972	26.359	0.3097	95.8
200.0	8.158	34.024	26.484	0.3923	93.7
250.0	7.935	34.050	26.538	0.4711	94.9
300.0	7.672	34.094	26.611	0.5473	96.3
353.0	7.256	34.120	26.690	0.6237	95.8



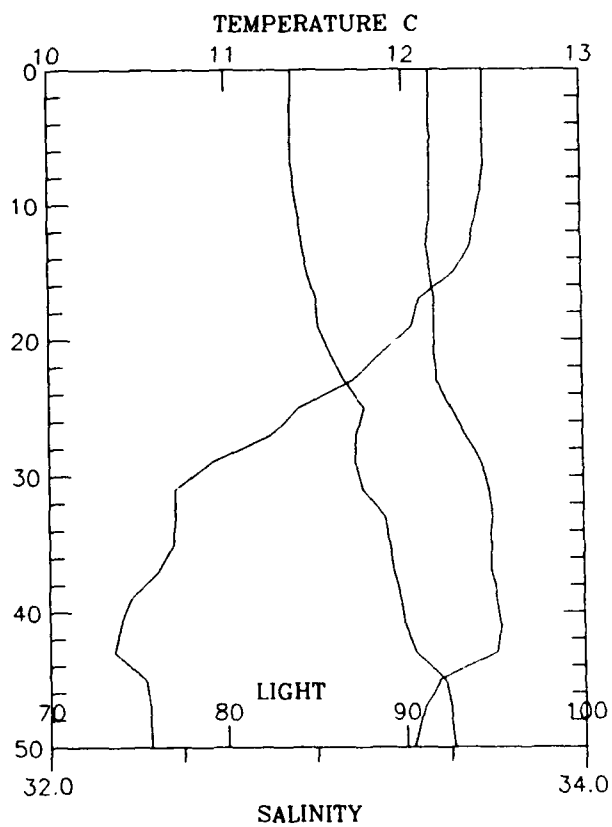
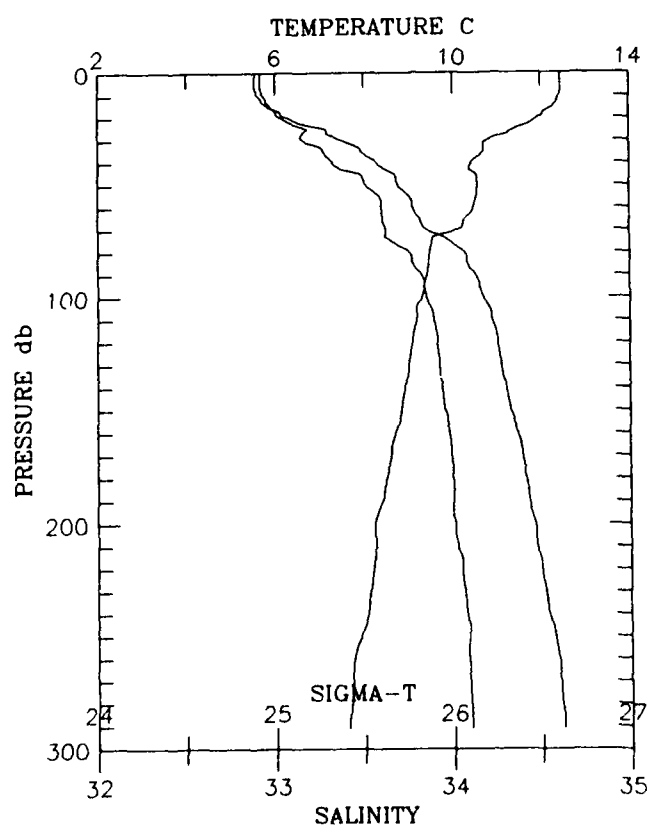
Cruise W8811 Station # 155 Depth m: 840 Time: 23 NOV 1988,0000  
 Position: 38 29.10'N 123 42.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.616	32.977	24.901	0.0000	91.70
10.0	12.608	32.977	24.903	0.0276	91.70
20.0	11.692	32.978	25.077	0.0576	91.60
30.0	11.347	33.070	25.211	0.0863	92.80
40.0	11.148	33.455	25.546	0.1123	88.70
50.0	10.377	33.505	25.721	0.1361	92.80
60.0	10.000	33.617	25.873	0.1582	94.60
80.0	9.525	33.764	26.066	0.1997	95.40
100.0	9.234	33.817	26.155	0.2383	96.00
150.0	8.578	33.987	26.391	0.3267	95.90
200.0	8.142	34.058	26.513	0.4078	95.90
250.0	7.784	34.078	26.582	0.4851	95.60
300.0	7.212	34.099	26.680	0.5582	96.60
400.0	6.251	34.086	26.799	0.6945	96.60
500.0	5.589	34.168	26.946	0.8192	95.90
600.0	5.121	34.232	27.052	0.9326	96.20
625.0	5.052	34.260	27.083	0.9595	96.40



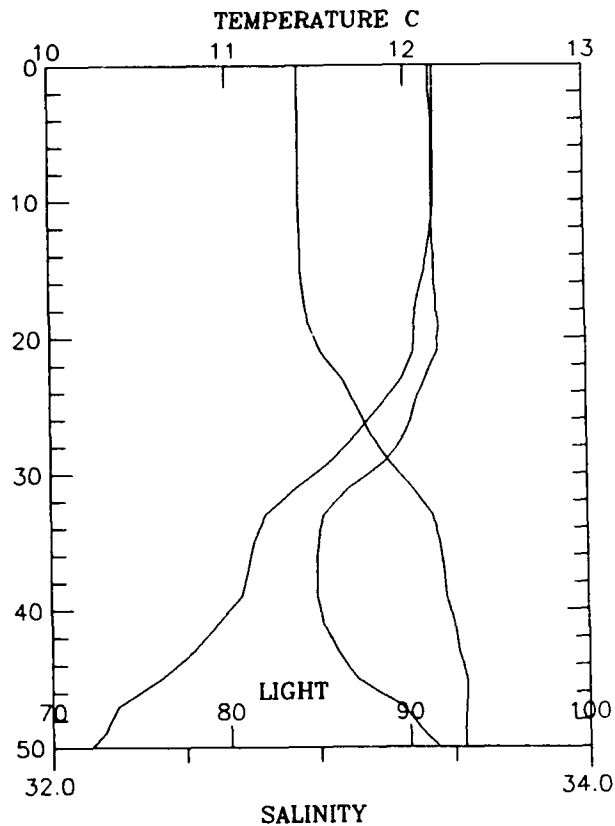
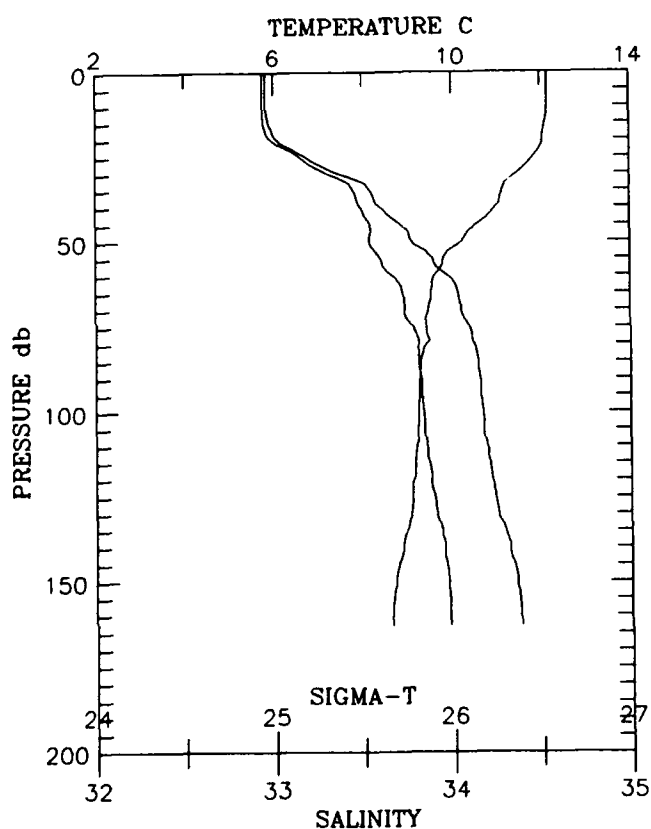
Cruise W8811 Station # 156 Depth m: 305 Time: 23 NOV 1988,0135  
 Position: 38 37.90'N 123 45.10'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.452	32.917	24.887	0.0000	91.50
10.0	12.422	32.936	24.907	0.0277	91.50
20.0	11.960	33.036	25.072	0.0577	91.70
30.0	10.811	33.162	25.378	0.0852	94.50
40.0	10.425	33.323	25.571	0.1104	95.20
50.0	10.566	33.512	25.694	0.1341	90.40
60.0	10.475	33.599	25.777	0.1568	85.60
80.0	9.477	33.754	26.066	0.1996	94.80
100.0	9.288	33.849	26.171	0.2381	94.50
150.0	8.835	33.955	26.326	0.3279	93.50
200.0	8.231	34.012	26.464	0.4116	95.30
250.0	7.906	34.088	26.572	0.4905	95.90
291.0	7.628	34.100	26.622	0.5519	95.30



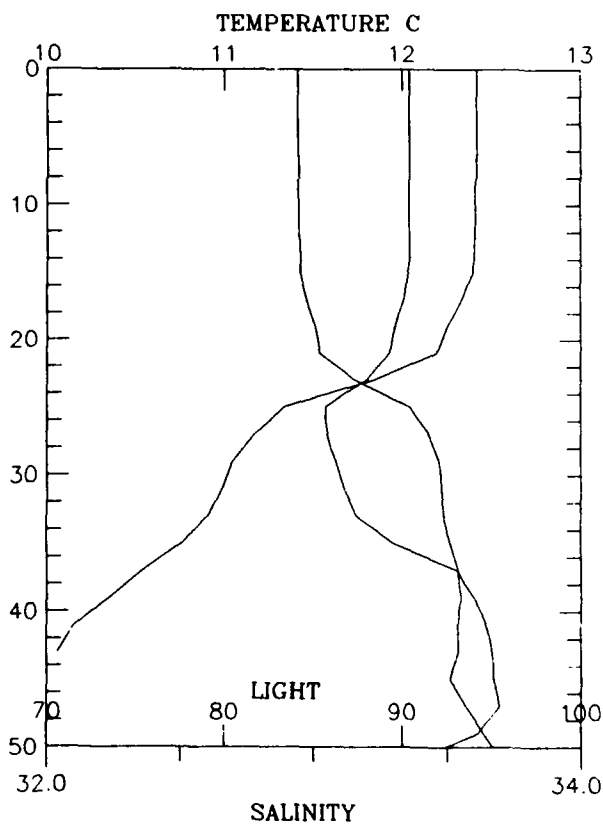
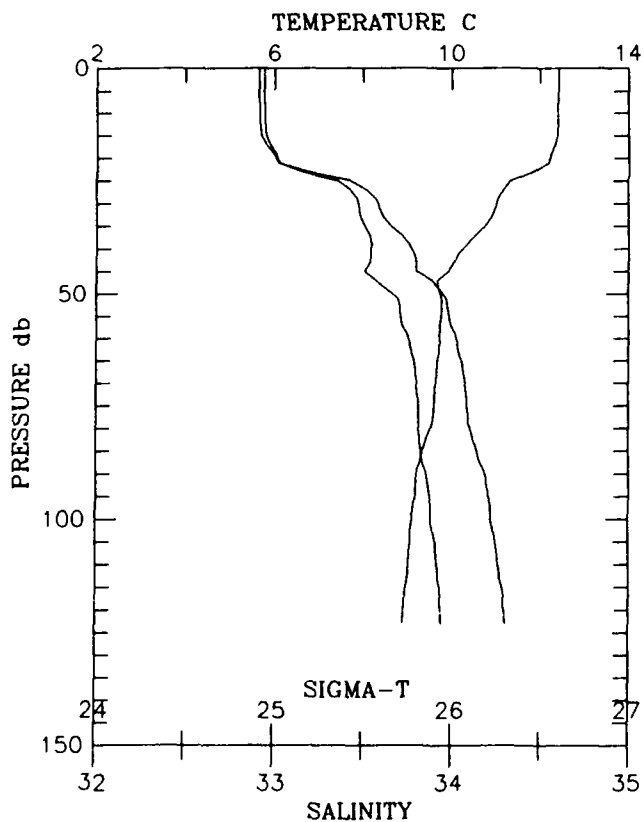
Cruise W8811 Station # 157 Depth m: 175 Time: 23 NOV 1988,0217  
 Position: 38 39.80'N 123 42.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.161	32.938	24.958	0.0000	91.40
10.0	12.158	32.938	24.959	0.0271	91.50
20.0	12.040	32.991	25.022	0.0571	91.70
30.0	11.478	33.304	25.369	0.0852	87.80
40.0	11.000	33.487	25.598	0.1101	85.10
50.0	10.216	33.537	25.774	0.1332	91.60
60.0	9.616	33.662	25.972	0.1548	95.00
70.0	9.463	33.735	26.053	0.1749	93.10
80.0	9.411	33.809	26.119	0.1944	87.70
90.0	9.260	33.822	26.154	0.2135	89.90
100.0	9.233	33.837	26.171	0.2323	90.20
110.0	9.184	33.854	26.192	0.2511	90.90
120.0	9.120	33.879	26.221	0.2696	91.60
130.0	9.064	33.910	26.255	0.2878	91.80
140.0	8.867	33.951	26.318	0.3055	93.50
150.0	8.711	33.971	26.358	0.3228	91.50
160.0	8.632	33.979	26.377	0.3398	86.80
163.0	8.628	33.980	26.378	0.3449	86.50



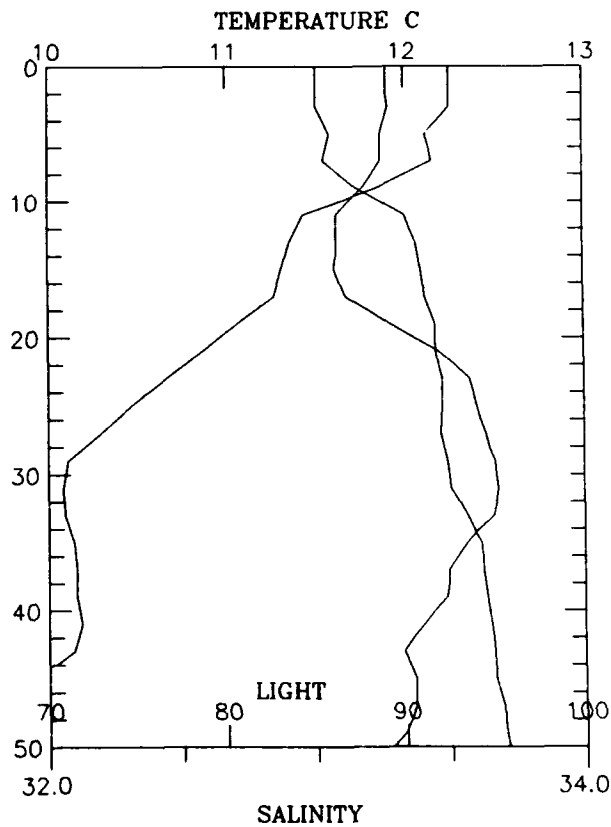
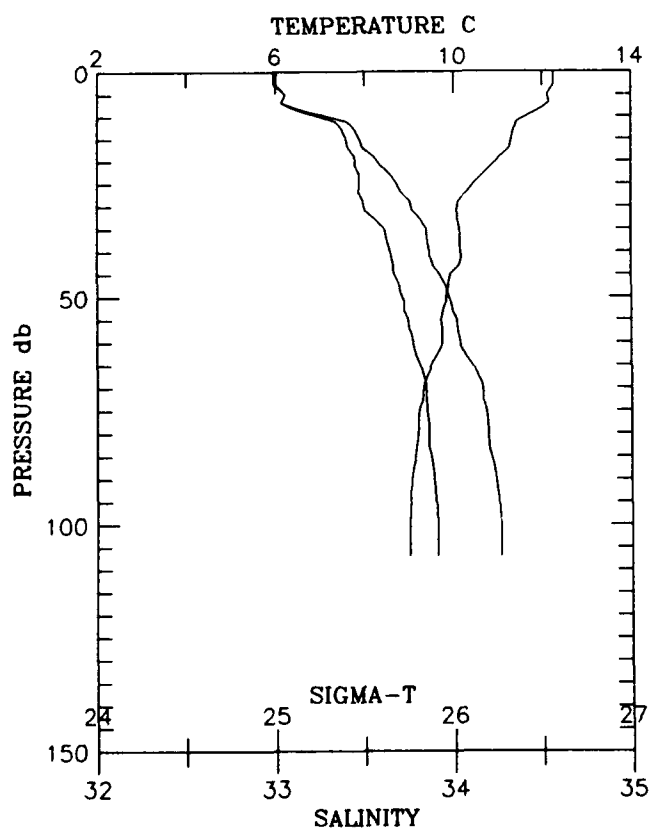
Cruise W8811 Station # 158 Depth m: 133 Time: 23 NOV 1988,0300  
 Position: 38 41.60'N 123 40.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.419	32.942	24.913	0.0000	90.40
10.0	12.411	32.946	24.917	0.0275	90.40
20.0	12.222	33.017	25.008	0.0578	89.40
30.0	11.017	33.475	25.586	0.0843	86.50
40.0	10.253	33.545	25.774	0.1077	94.40
50.0	9.759	33.669	25.953	0.1296	92.40
60.0	9.733	33.758	26.027	0.1500	86.90
70.0	9.652	33.804	26.077	0.1698	84.30
80.0	9.535	33.818	26.107	0.1894	84.50
90.0	9.221	33.858	26.189	0.2084	86.70
100.0	9.125	33.887	26.227	0.2268	93.10
110.0	9.042	33.921	26.267	0.2448	94.10
120.0	8.932	33.942	26.301	0.2626	90.10
123.0	8.918	33.945	26.305	0.2678	88.30



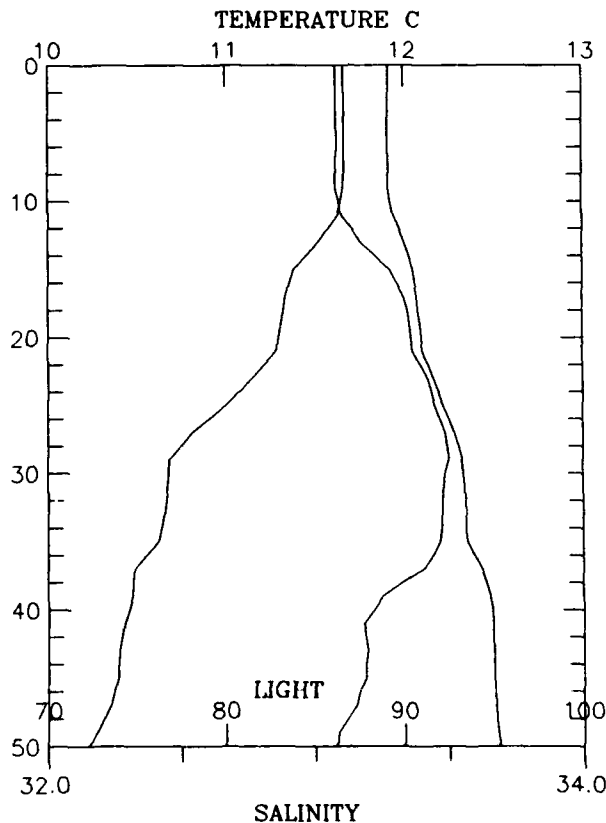
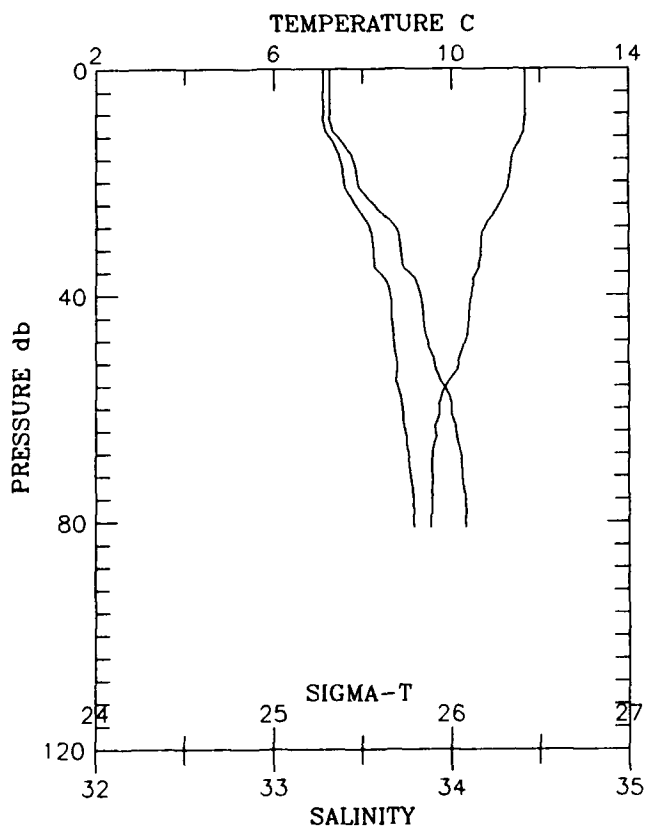
Cruise W8811 Station # 159 Depth m: 115 Time: 23 NOV 1988,0329  
 Position: 38 42.80'N 123 38.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.255	33.005	24.992	0.0000	89.00
10.0	11.645	33.245	25.292	0.0262	86.90
20.0	10.962	33.447	25.573	0.0515	90.50
30.0	10.095	33.497	25.763	0.0749	95.10
40.0	10.169	33.644	25.865	0.0969	91.60
50.0	9.838	33.712	25.974	0.1180	89.20
60.0	9.737	33.772	26.038	0.1382	84.00
70.0	9.322	33.843	26.161	0.1576	84.40
80.0	9.194	33.859	26.194	0.1763	89.70
90.0	9.066	33.889	26.239	0.1946	89.00
100.0	9.002	33.907	26.262	0.2126	83.80
107.0	8.999	33.907	26.263	0.2252	80.60



Cruise W8811 Station # 160 Depth m: 91 Time: 23 NOV 1988,0404  
 Position: 38 44.60'N 123 36.70'W Depth Deck Offset: 0.00

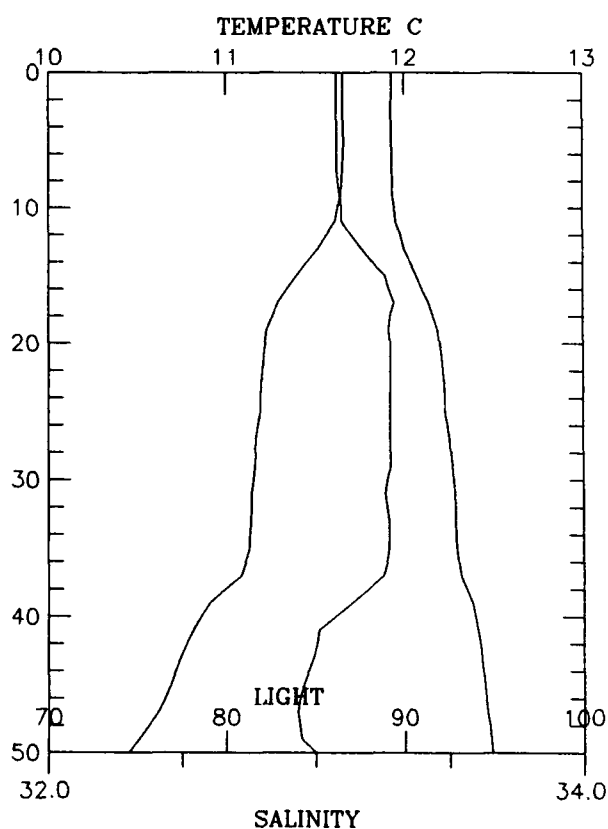
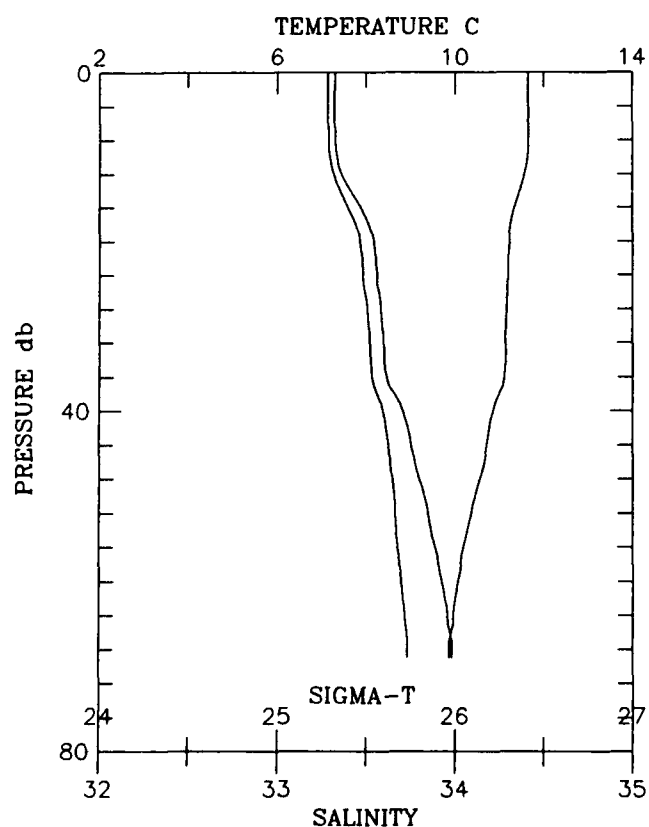
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.666	33.277	25.314	0.0000	86.2
5.0	11.668	33.275	25.312	0.0054	86.3
10.0	11.649	33.285	25.324	0.0187	86.4
15.0	11.383	33.366	25.435	0.0318	89.2
20.0	11.299	33.397	25.475	0.0446	90.4
25.0	11.004	33.479	25.591	0.0570	91.7
30.0	10.677	33.553	25.707	0.0687	92.3
35.0	10.620	33.567	25.727	0.0802	92.0
40.0	10.451	33.657	25.827	0.0914	88.3
45.0	10.389	33.666	25.845	0.1023	87.8
50.0	10.226	33.686	25.888	0.1131	86.2
55.0	9.933	33.684	25.936	0.1237	88.7
60.0	9.728	33.725	26.002	0.1340	88.6
65.0	9.653	33.745	26.030	0.1441	88.9
70.0	9.566	33.765	26.061	0.1540	87.8
75.0	9.562	33.785	26.076	0.1639	78.4
80.0	9.543	33.788	26.082	0.1737	76.0
81.0	9.541	33.789	26.083	0.1757	76.4





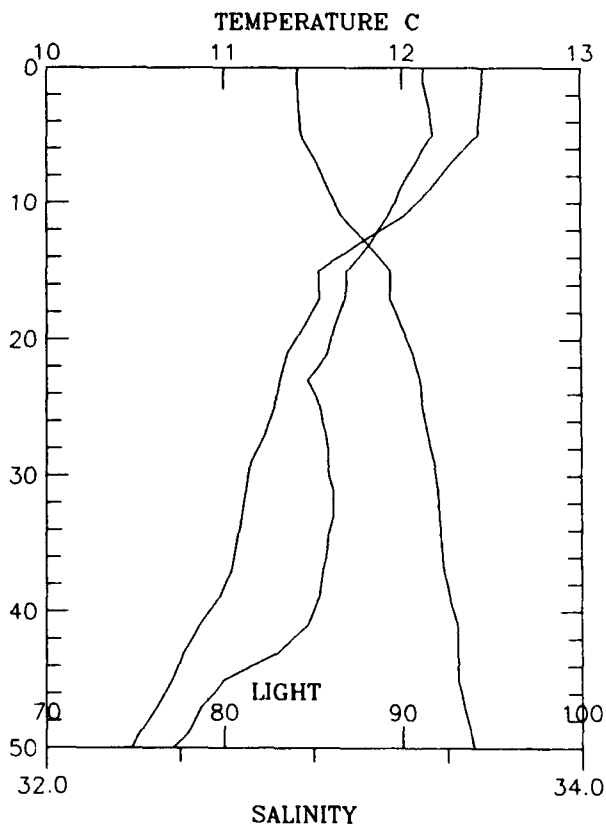
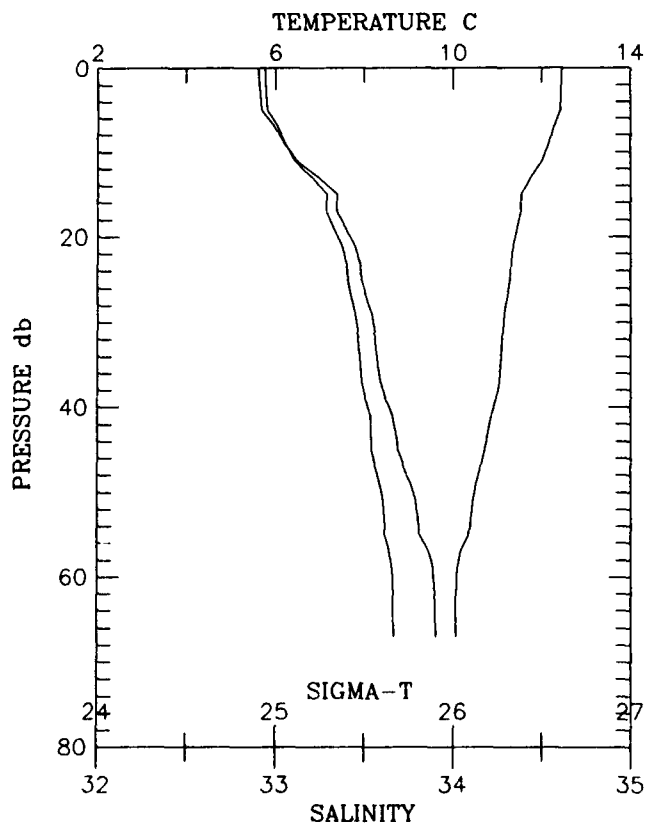
Cruise W8811 Station # 161 Depth m: 77 Time: 23 NOV 1988,0445  
 Position: 38 45.20'N 123 35.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.657	33.286	25.323	0.0000	86.2
5.0	11.660	33.285	25.321	0.0053	86.2
10.0	11.630	33.296	25.335	0.0187	86.5
15.0	11.394	33.376	25.440	0.0318	88.9
20.0	11.219	33.464	25.541	0.0443	89.2
25.0	11.190	33.484	25.562	0.0565	89.2
30.0	11.150	33.514	25.592	0.0687	89.0
35.0	11.130	33.527	25.606	0.0807	89.1
40.0	10.858	33.594	25.707	0.0925	86.1
45.0	10.686	33.629	25.764	0.1040	84.3
50.0	10.451	33.658	25.828	0.1151	85.0
55.0	10.233	33.672	25.876	0.1260	88.6
60.0	10.069	33.697	25.923	0.1366	84.2
65.0	9.956	33.721	25.961	0.1471	82.1
69.0	9.875	33.732	25.983	0.1553	79.1



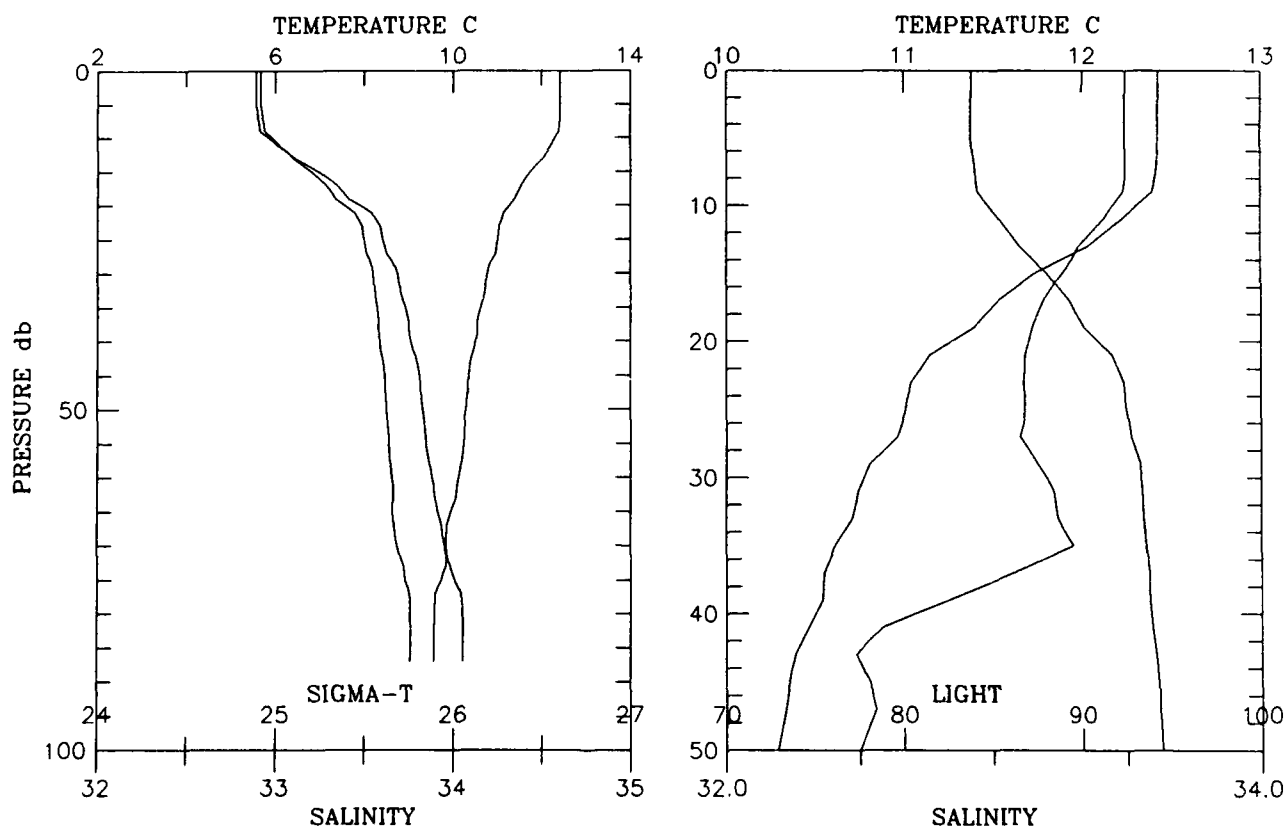
Cruise W8811 Station # 162 Depth m: 77 Time: 23 NOV 1988,0554  
 Position: 38 50.80'N 123 42.20'W Depth Deck Offset: 0.00

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0		12.450	32.942	24.906	0.0000	91.2
5.0		12.424	32.955	24.922	0.0061	91.7
10.0		12.083	33.081	25.084	0.0210	89.6
15.0		11.534	33.288	25.347	0.0349	86.9
20.0		11.402	33.350	25.419	0.0480	86.0
25.0		11.283	33.408	25.486	0.0607	85.4
30.0		11.135	33.456	25.549	0.0731	85.9
35.0		11.067	33.477	25.578	0.0854	85.8
40.0		10.915	33.521	25.640	0.0974	85.0
45.0		10.709	33.539	25.690	0.1091	80.0
50.0		10.478	33.597	25.775	0.1206	77.1
55.0		10.360	33.617	25.811	0.1317	77.6
60.0		10.082	33.658	25.890	0.1425	75.1
65.0		10.065	33.665	25.899	0.1532	74.5
67.0		10.060	33.668	25.902	0.1575	73.6



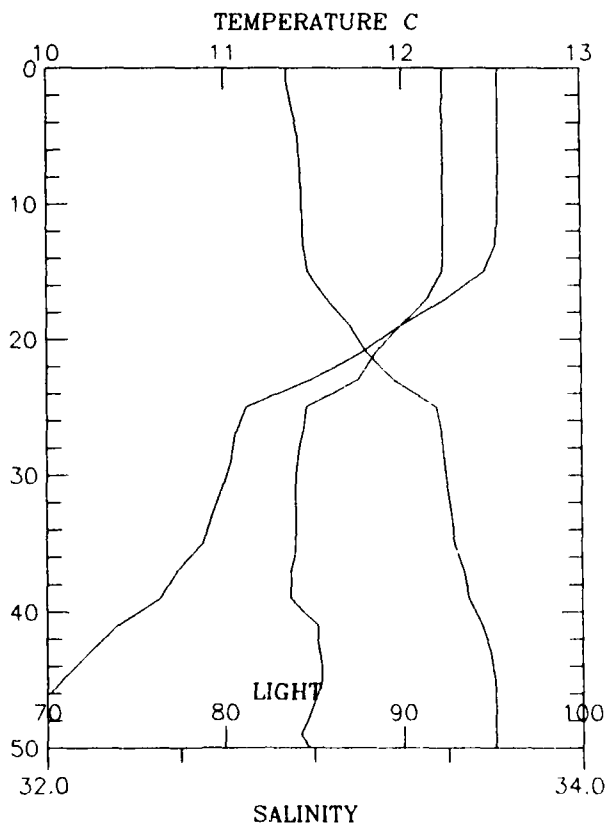
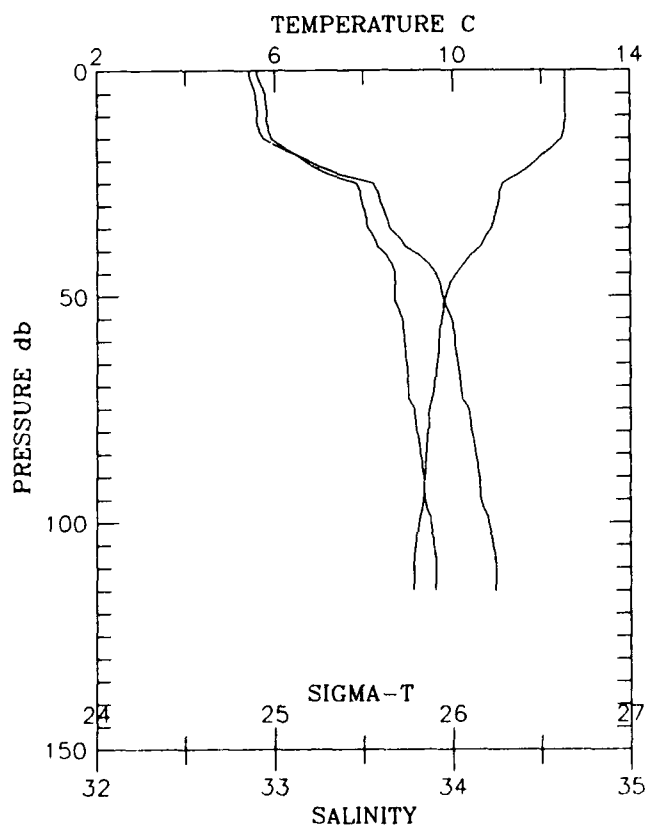
Cruise W8811 Station # 163 Depth m: 96 Time: 23 NOV 1988,0623  
 Position: 38 50.00'N 123 43.60'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.424	32.919	24.893	0.0000	92.4
5.0	12.426	32.918	24.892	0.0000	92.4
10.0	12.307	32.982	24.965	0.0000	91.7
15.0	11.734	33.203	25.244	0.0011	88.9
20.0	11.267	33.391	25.476	0.0143	87.0
25.0	11.010	33.498	25.605	0.0265	86.8
30.0	10.774	33.551	25.688	0.0383	88.0
35.0	10.609	33.571	25.732	0.0499	89.5
40.0	10.502	33.587	25.763	0.0612	80.6
45.0	10.353	33.616	25.812	0.0724	78.1
50.0	10.290	33.628	25.832	0.0834	77.5
55.0	10.237	33.637	25.848	0.0943	77.2
60.0	10.123	33.657	25.883	0.1052	77.6
65.0	9.942	33.658	25.914	0.1158	82.8
70.0	9.849	33.687	25.953	0.1263	87.0
75.0	9.722	33.730	26.007	0.1366	85.9
80.0	9.583	33.759	26.052	0.1466	83.6
85.0	9.573	33.760	26.055	0.1566	80.6
87.0	9.575	33.759	26.054	0.1605	81.2



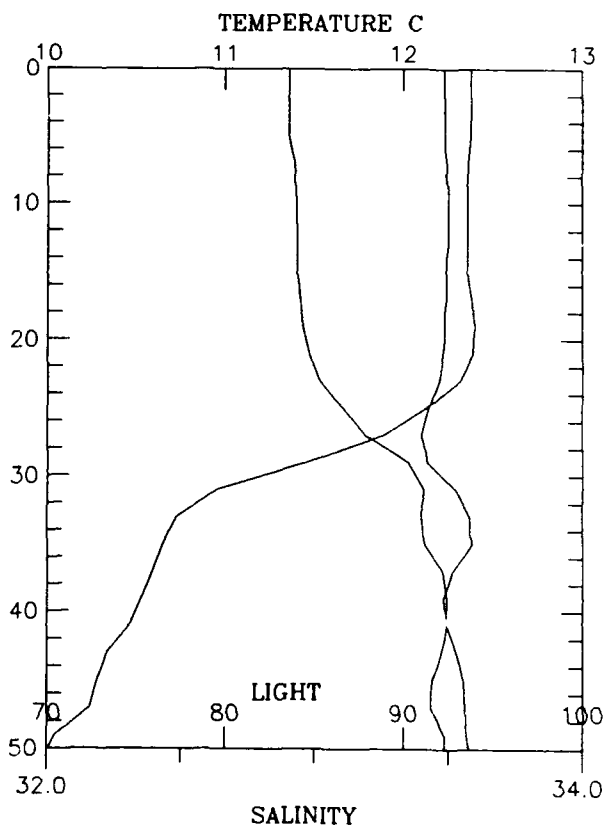
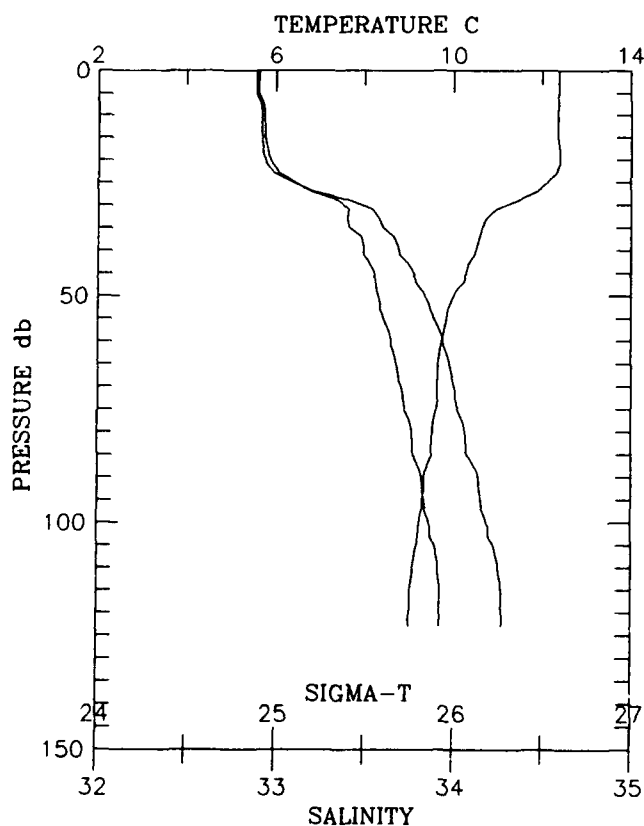
Cruise W8811 Station # 164 Depth m: 123 Time: 23 NOV 1988,0655  
 Position: 38 48.40'N 123 45.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.538	32.903	24.859	0.0000	92.30
10.0	12.525	32.958	24.903	0.0277	92.30
20.0	11.880	33.167	25.189	0.0576	89.20
30.0	11.010	33.494	25.602	0.0830	84.00
40.0	10.514	33.602	25.773	0.1065	84.40
50.0	9.840	33.675	25.944	0.1279	84.70
60.0	9.689	33.730	26.013	0.1484	84.20
70.0	9.578	33.749	26.045	0.1685	85.60
80.0	9.436	33.797	26.106	0.1881	88.50
90.0	9.363	33.834	26.147	0.2073	86.60
100.0	9.234	33.875	26.200	0.2261	89.50
110.0	9.118	33.903	26.241	0.2444	79.90
115.0	9.113	33.905	26.243	0.2535	75.80



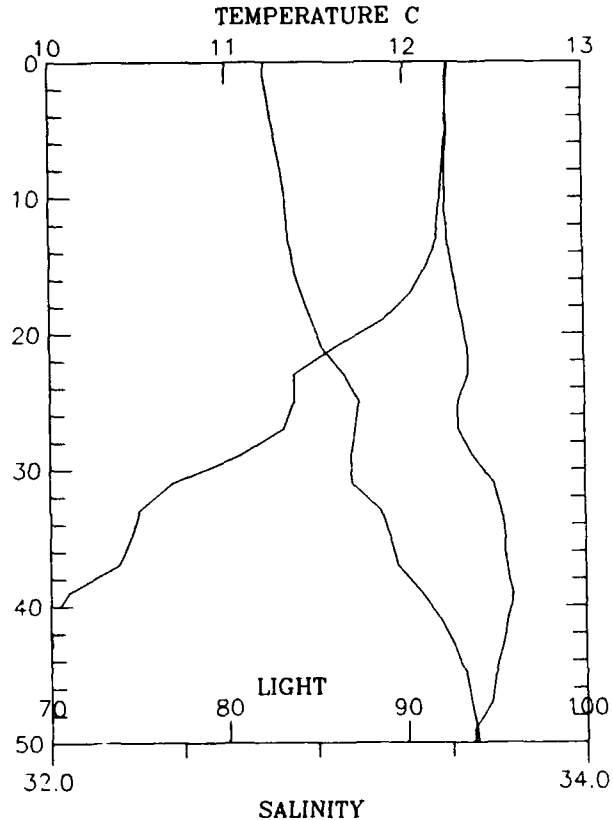
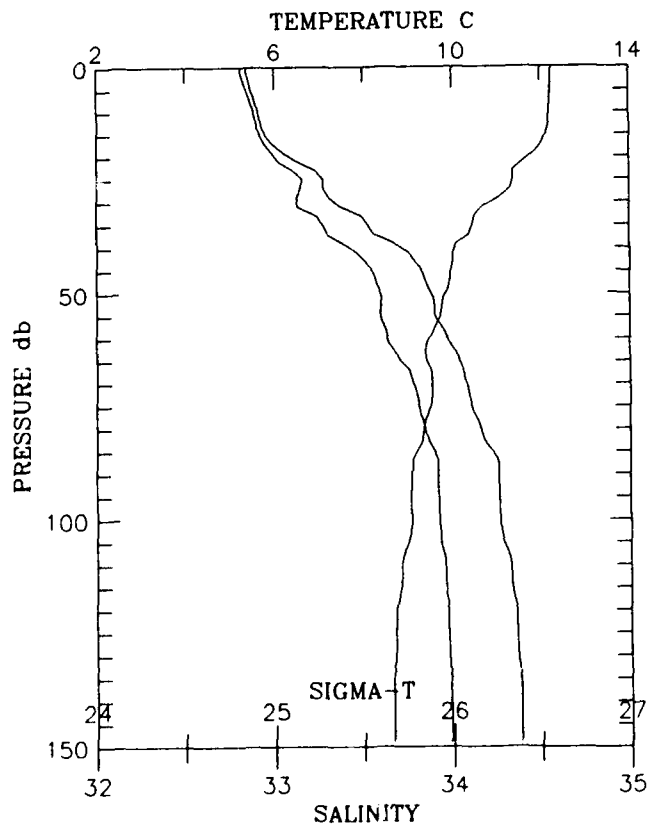
Cruise W8811 Station # 165 Depth m: 131 Time: 23 NOV 1988,0728  
 Position: 38 47.50'N 123 46.90'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.376	32.905	24.891	0.0000	92.30
10.0	12.356	32.932	24.917	0.0020	92.50
20.0	12.393	32.968	24.938	0.0315	92.30
30.0	11.205	33.378	25.476	0.0600	92.10
40.0	10.497	33.493	25.691	0.0841	92.30
50.0	10.005	33.576	25.840	0.1066	92.30
60.0	9.737	33.647	25.940	0.1280	91.00
70.0	9.630	33.703	26.001	0.1486	89.80
80.0	9.535	33.767	26.067	0.1687	85.20
90.0	9.340	33.820	26.140	0.1882	87.00
100.0	9.249	33.866	26.191	0.2071	89.30
110.0	9.094	33.916	26.254	0.2254	91.70
120.0	9.016	33.926	26.275	0.2433	87.40
123.0	9.016	33.927	26.275	0.2487	86.30



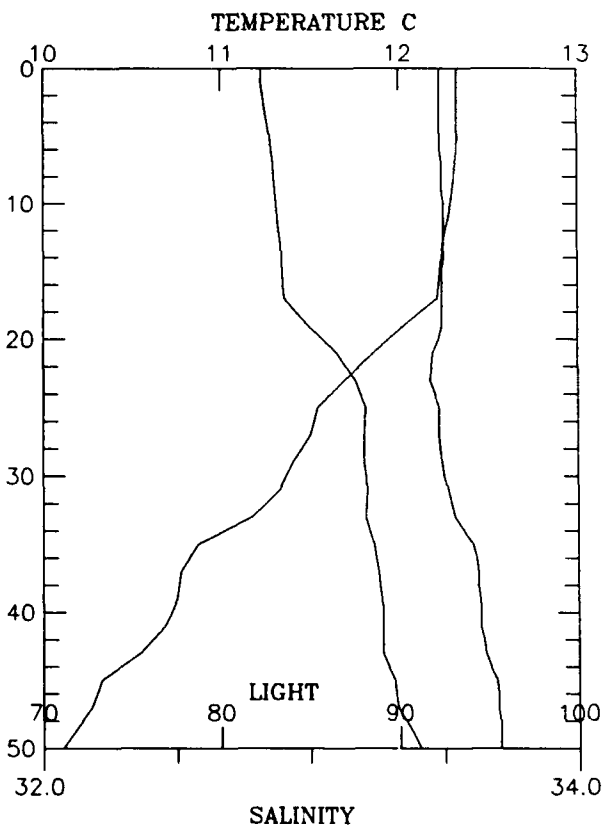
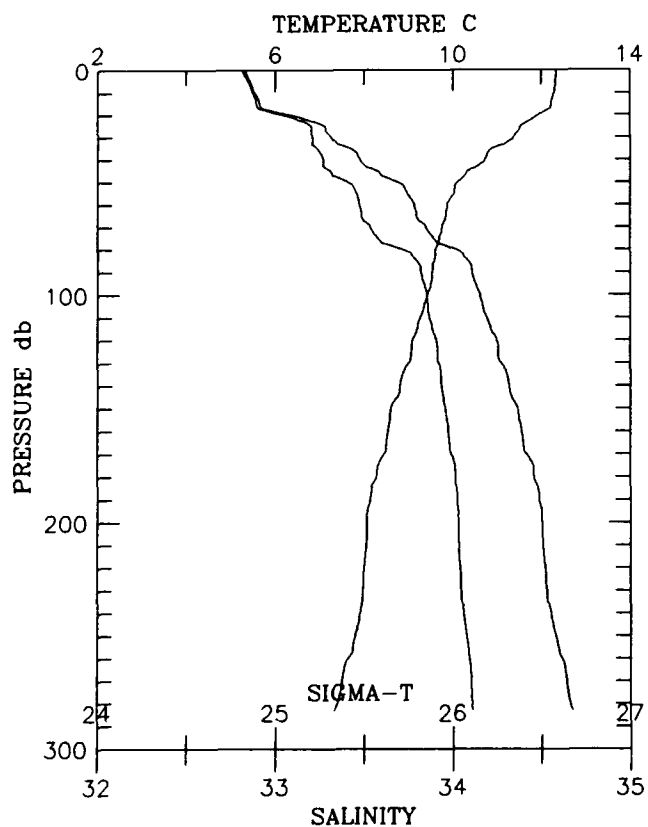
Cruise W8811 Station # 166 Depth m: 159 Time: 23 NOV 1988,0808  
 Position: 38 46.00'N 123 48.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.246	32.812	24.844	0.0000	92.4
10.0	12.198	32.886	24.911	0.0216	92.3
20.0	11.741	33.004	25.088	0.0517	93.3
30.0	10.873	33.129	25.341	0.0792	94.3
40.0	10.050	33.422	25.712	0.1040	95.8
50.0	9.849	33.593	25.879	0.1261	93.7
60.0	9.483	33.635	25.972	0.1472	95.3
70.0	9.525	33.777	26.076	0.1673	94.1
80.0	9.352	33.844	26.157	0.1866	91.4
90.0	9.076	33.917	26.258	0.2049	94.8
100.0	9.059	33.921	26.264	0.2228	94.6
110.0	8.847	33.955	26.325	0.2405	91.1
120.0	8.729	33.972	26.356	0.2578	88.8
130.0	8.701	33.977	26.364	0.2748	88.7
140.0	8.651	33.984	26.378	0.2917	90.2
149.0	8.645	33.986	26.380	0.3069	90.3



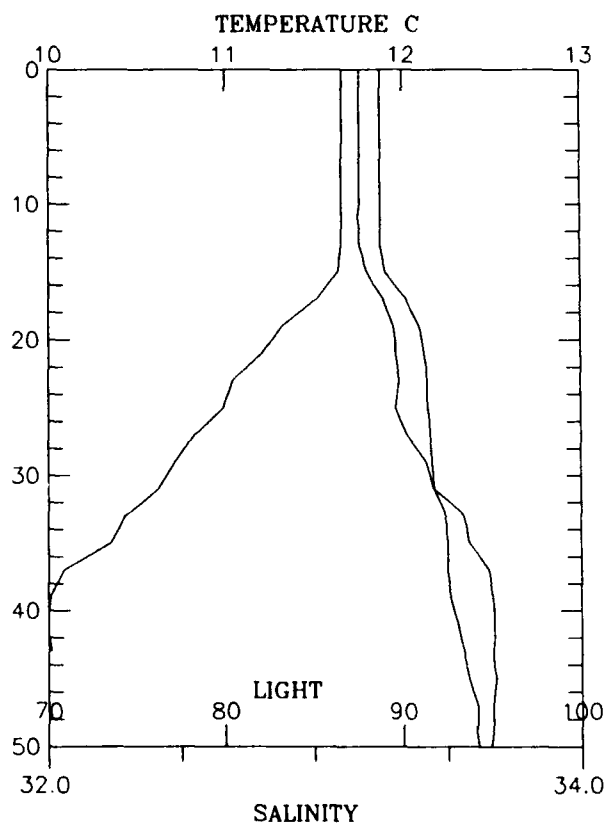
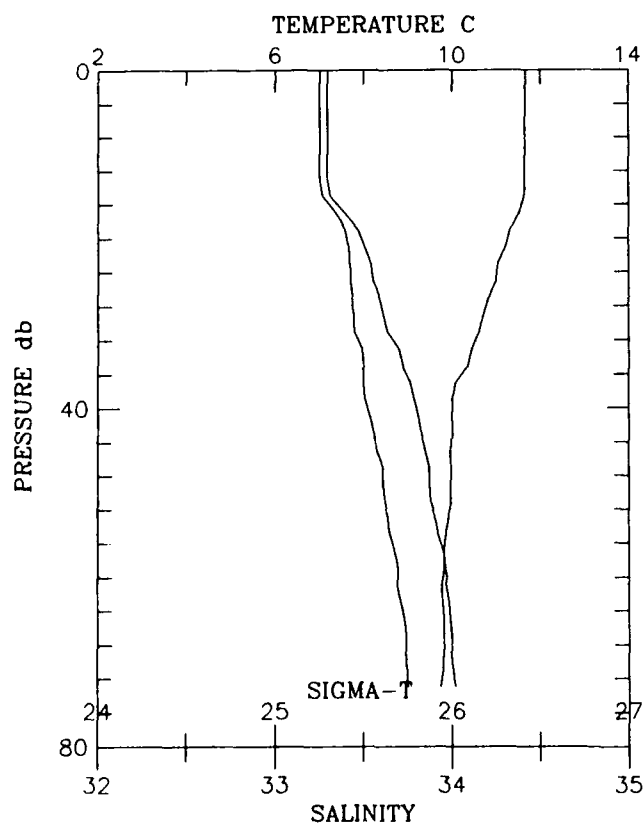
Cruise W8811 Station # 167 Depth m: 290 Time: 23 NOV 1988,0847  
 Position: 38 44.50'N 123 50.30'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	12.328	32.818	24.834	0.0000	92.3
10.0	12.290	32.875	24.885	0.0217	92.5
20.0	11.942	33.046	25.083	0.0521	92.2
30.0	11.365	33.208	25.315	0.0796	92.5
40.0	10.718	33.269	25.478	0.1056	94.5
50.0	10.109	33.409	25.691	0.1300	95.6
60.0	9.875	33.474	25.782	0.1527	95.5
80.0	9.613	33.719	26.017	0.1962	94.5
100.0	9.422	33.853	26.152	0.2351	93.1
150.0	8.595	33.956	26.365	0.3252	95.7
200.0	8.061	34.029	26.503	0.4070	93.3
250.0	7.785	34.077	26.581	0.4849	95.2
283.0	7.326	34.115	26.677	0.5334	95.5



Cruise W8811 Station # 168 Depth m: 80 Time: 23 NOV 1988, 2046  
 Position: 38 39.70'N 123 28.00'W Depth Deck Offset: 0.00

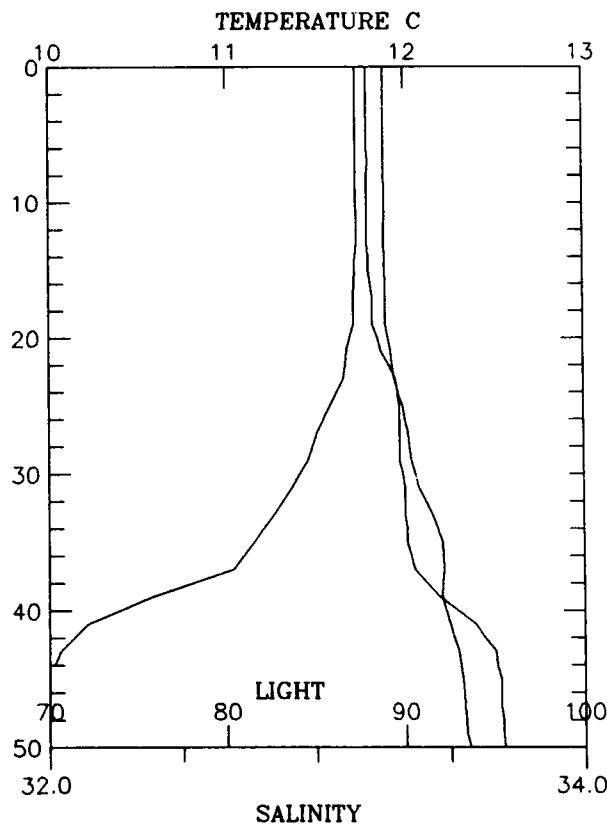
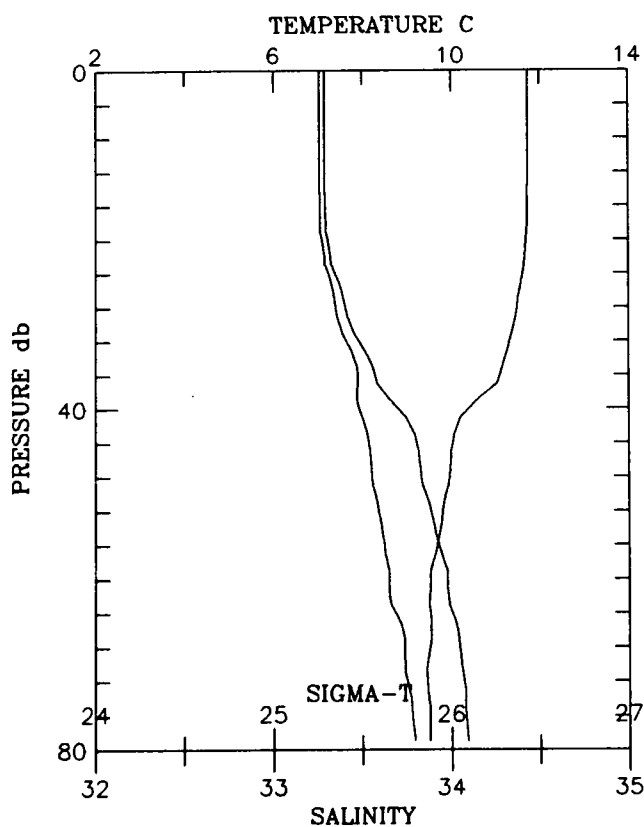
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.659	33.251	25.295	0.0000	87.6
5.0	11.659	33.250	25.295	0.0054	87.6
10.0	11.658	33.251	25.295	0.0189	87.6
15.0	11.639	33.267	25.311	0.0323	88.0
20.0	11.264	33.405	25.487	0.0453	89.6
25.0	10.989	33.427	25.553	0.0577	89.6
30.0	10.668	33.446	25.624	0.0697	91.5
35.0	10.351	33.500	25.722	0.0814	93.7
40.0	10.002	33.522	25.798	0.0927	95.1
45.0	9.956	33.578	25.849	0.1037	95.2
50.0	9.967	33.613	25.875	0.1145	94.9
55.0	9.854	33.648	25.921	0.1252	94.6
60.0	9.790	33.692	25.967	0.1356	91.5
65.0	9.813	33.730	25.992	0.1458	69.9
70.0	9.808	33.743	26.003	0.1560	51.5
73.0	9.739	33.749	26.019	0.1621	54.5





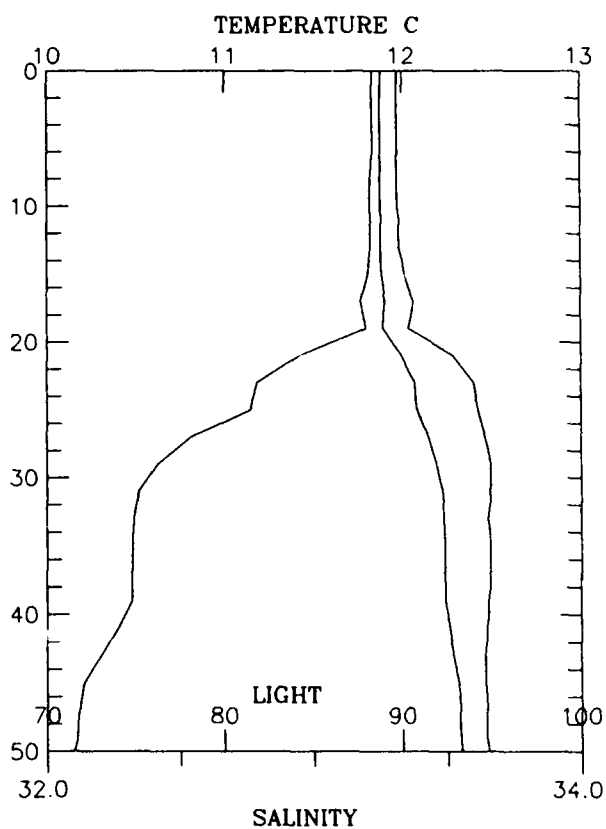
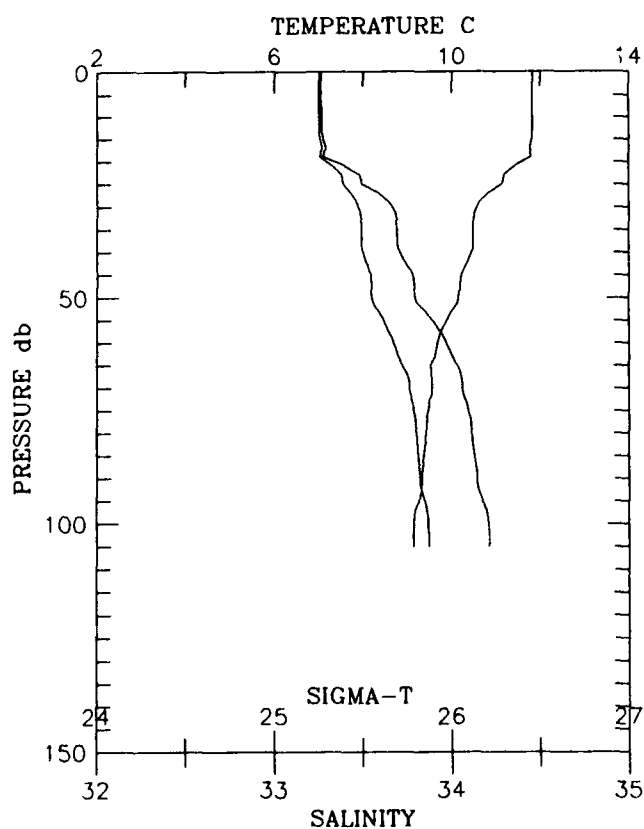
Cruise W8811 Station # 169 Depth m: 88 Time: 23 NOV 1988,2121  
 Position: 38 39.00'N 123 29.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.731	33.258	25.287	0.0000	87.9
5.0	11.731	33.258	25.287	0.0054	87.9
10.0	11.731	33.259	25.288	0.0189	87.9
15.0	11.721	33.261	25.291	0.0324	88.0
20.0	11.695	33.272	25.305	0.0459	88.5
25.0	11.581	33.325	25.367	0.0593	89.7
30.0	11.411	33.371	25.434	0.0722	89.9
35.0	11.150	33.471	25.559	0.0848	90.1
40.0	10.394	33.483	25.701	0.0968	92.9
45.0	9.994	33.545	25.818	0.1080	95.3
50.0	9.882	33.571	25.857	0.1190	95.5
55.0	9.721	33.615	25.918	0.1297	95.6
60.0	9.522	33.647	25.976	0.1401	95.8
65.0	9.536	33.711	26.023	0.1503	95.0
70.0	9.459	33.739	26.057	0.1603	93.8
75.0	9.506	33.776	26.079	0.1702	86.4
79.0	9.505	33.795	26.094	0.1780	79.4



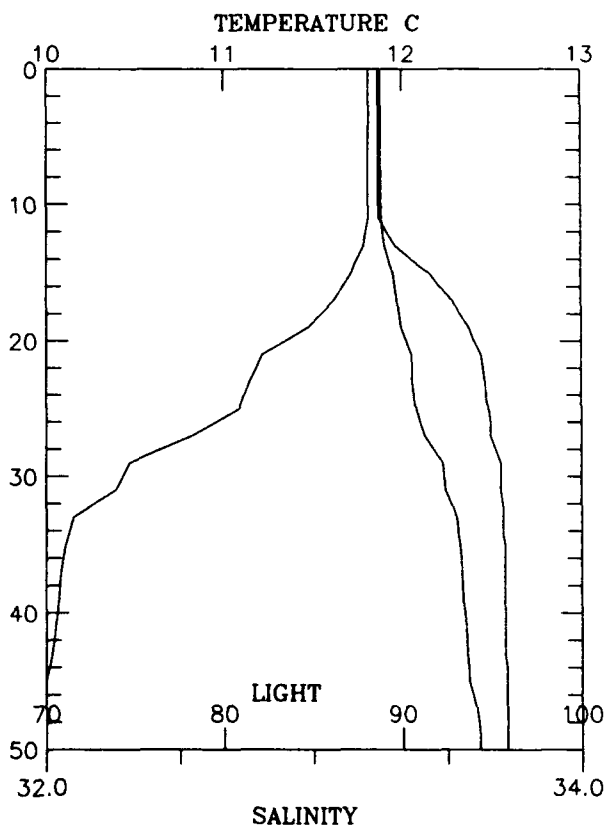
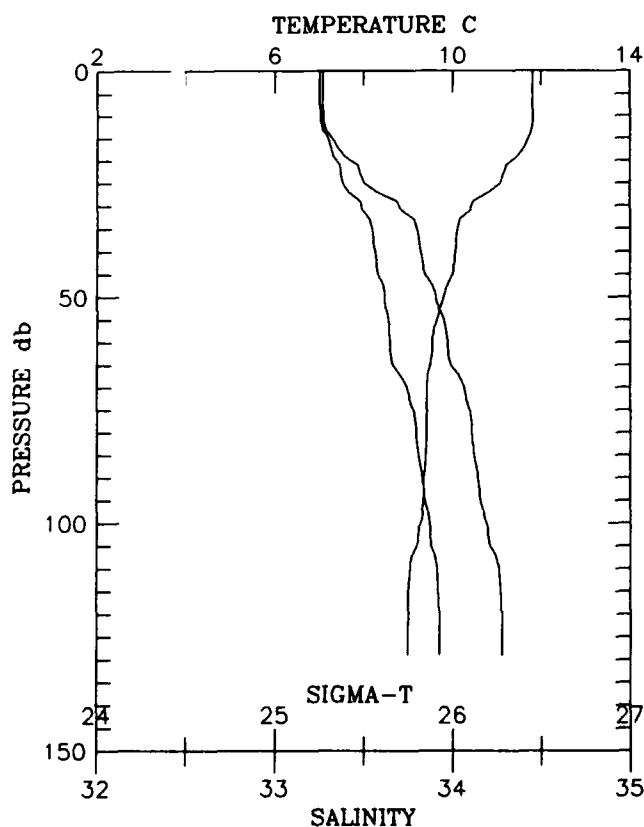
Cruise W8811 Station # 170 Depth m: 112 Time: 23 NOV 1988,2200  
 Position: 38 36.80'N 123 31.50'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.832	33.252	25.263	0.0000	89.7
10.0	11.818	33.251	25.266	0.0191	89.7
20.0	11.610	33.293	25.337	0.0462	91.6
30.0	10.569	33.472	25.662	0.0711	94.9
40.0	10.438	33.499	25.706	0.0943	94.8
50.0	10.152	33.551	25.795	0.1169	94.8
60.0	9.670	33.670	25.969	0.1383	95.7
70.0	9.554	33.763	26.061	0.1585	95.5
80.0	9.417	33.802	26.113	0.1780	95.3
90.0	9.322	33.819	26.142	0.1972	94.9
100.0	9.149	33.866	26.207	0.2159	77.9
105.0	9.139	33.869	26.210	0.2251	74.1



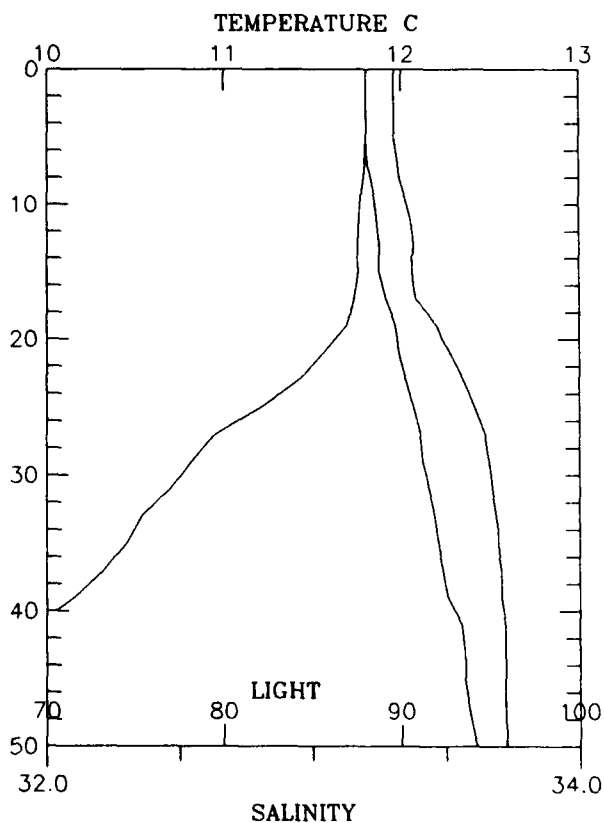
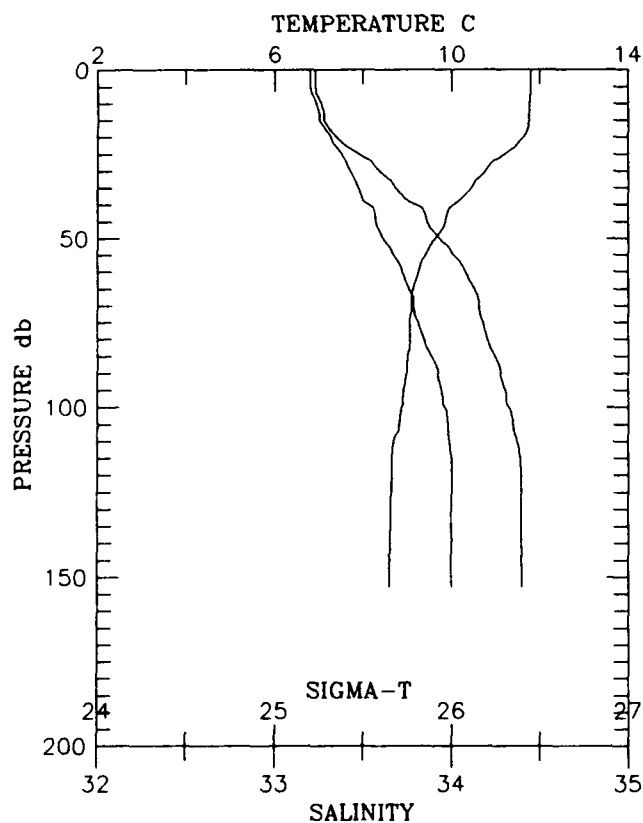
Cruise W8811 Station # 171 Depth m: 137 Time: 23 NOV 1988,2233  
 Position: 38 35.30'N 123 33.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.814	33.254	25.269	0.0000	88.70
10.0	11.810	33.255	25.270	0.0245	88.70
20.0	11.343	33.347	25.428	0.0511	94.00
30.0	10.431	33.489	25.699	0.0758	95.50
40.0	10.061	33.564	25.821	0.0982	95.70
50.0	9.802	33.619	25.907	0.1198	95.80
60.0	9.542	33.647	25.972	0.1407	95.90
70.0	9.425	33.742	26.065	0.1610	95.90
80.0	9.408	33.793	26.108	0.1805	95.60
90.0	9.358	33.830	26.145	0.1997	95.30
100.0	9.273	33.870	26.190	0.2186	95.00
110.0	9.036	33.912	26.261	0.2369	90.00
120.0	8.993	33.924	26.277	0.2548	81.60
129.0	8.987	33.925	26.279	0.2709	77.70



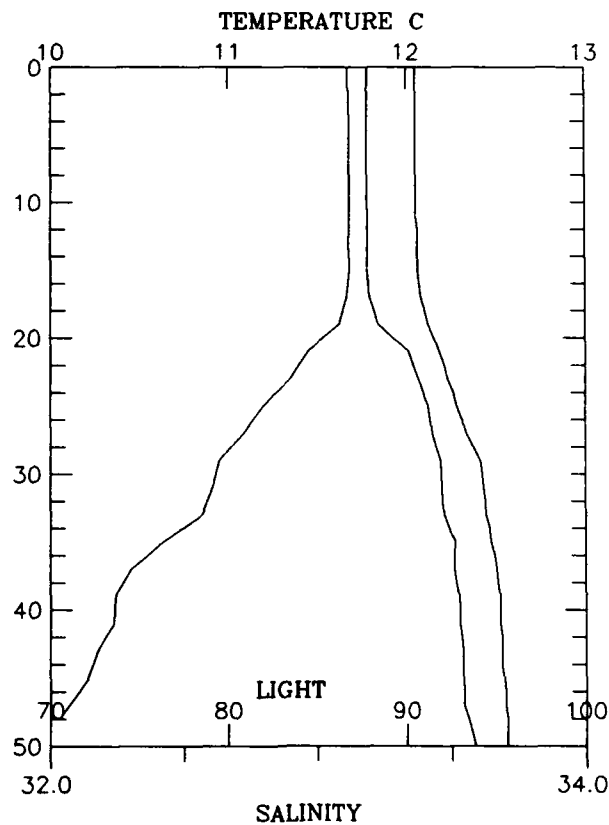
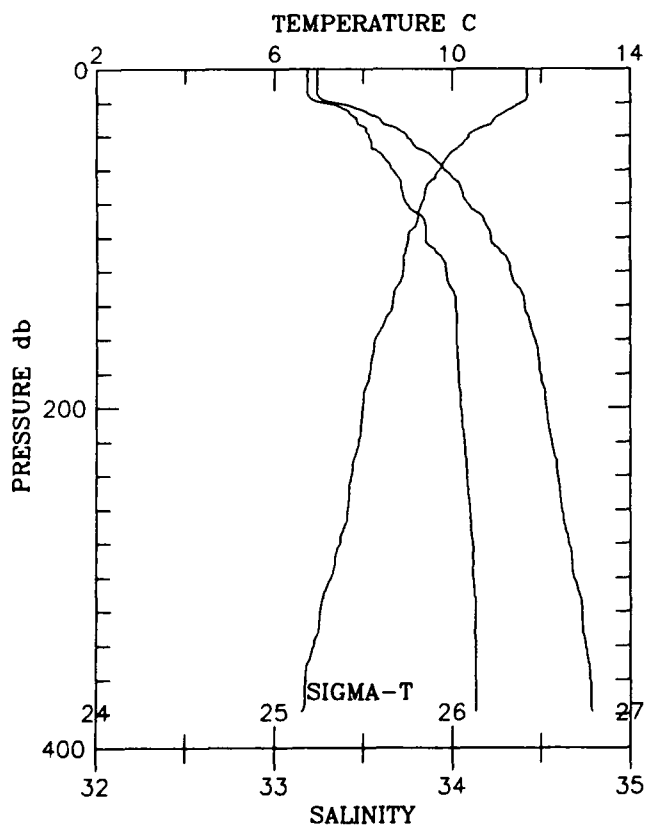
Cruise W8811 Station # 172 Depth m: 161 Time: 23 NOV 1988, 2322  
 Position: 38 33.00'N 123 36.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.801	33.202	25.230	0.0000	89.60
10.0	11.771	33.235	25.262	0.0042	90.30
20.0	11.630	33.317	25.351	0.0312	92.30
30.0	10.757	33.425	25.593	0.0565	95.00
40.0	10.050	33.531	25.797	0.0798	95.70
50.0	9.630	33.613	25.931	0.1014	95.90
60.0	9.252	33.723	26.079	0.1216	95.90
70.0	9.087	33.784	26.153	0.1408	96.00
80.0	9.064	33.844	26.203	0.1595	96.00
90.0	8.981	33.924	26.279	0.1775	96.00
100.0	8.875	33.961	26.325	0.1951	95.90
110.0	8.698	33.989	26.374	0.2122	95.50
120.0	8.646	34.002	26.392	0.2290	93.40
130.0	8.626	34.000	26.394	0.2457	91.80
140.0	8.608	33.999	26.396	0.2624	91.20
150.0	8.595	33.999	26.398	0.2791	90.70
153.0	8.594	34.000	26.399	0.2841	90.60



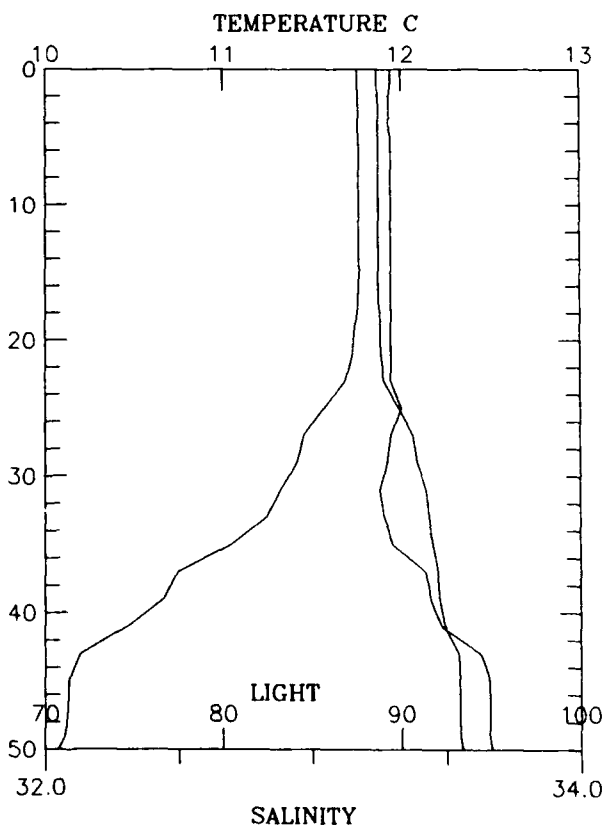
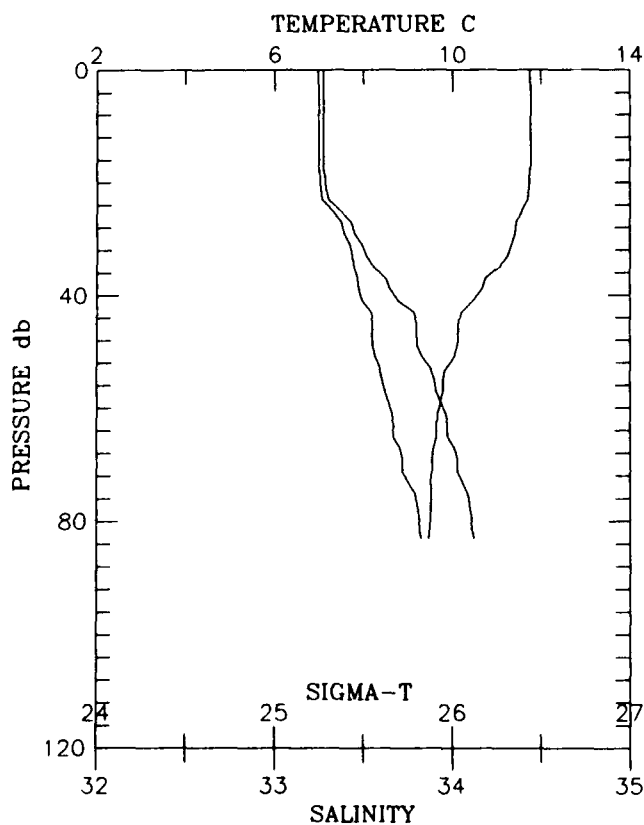
Cruise W8811 Station # 173 Depth m: 395 Time: 24 NOV 1988,0000  
 Position: 38 31.00'N 123 39.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.673	33.186	25.241	0.0000	90.50
10.0	11.679	33.185	25.240	0.0247	90.50
20.0	11.535	33.283	25.342	0.0521	91.50
30.0	10.929	33.461	25.590	0.0772	94.20
40.0	10.358	33.529	25.743	0.1007	95.20
50.0	9.952	33.588	25.858	0.1230	95.60
60.0	9.700	33.663	25.959	0.1442	95.70
80.0	9.291	33.740	26.086	0.1843	95.80
100.0	9.002	33.848	26.216	0.2219	95.80
150.0	8.467	34.023	26.436	0.3079	95.70
200.0	7.982	34.048	26.529	0.3874	94.50
250.0	7.673	34.089	26.607	0.4634	95.20
300.0	7.274	34.117	26.685	0.5361	96.10
379.0	6.610	34.132	26.788	0.6437	95.60



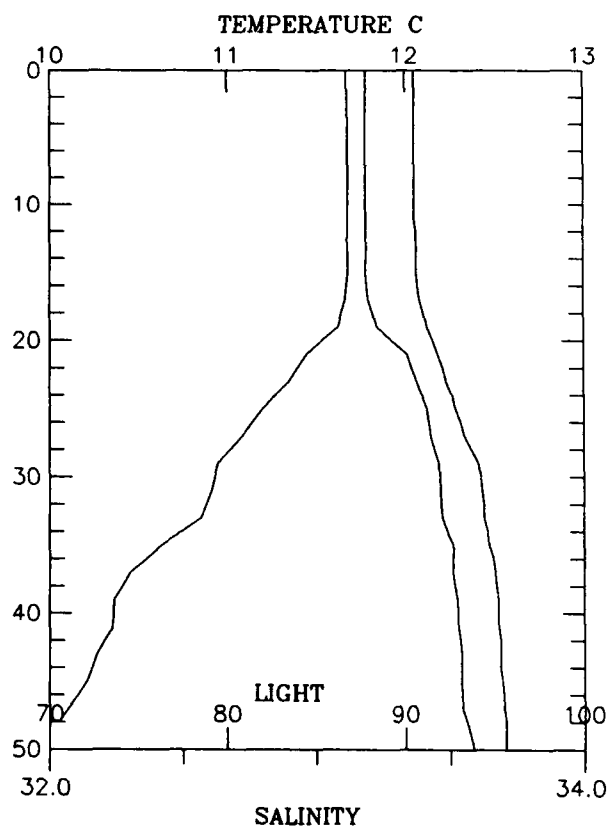
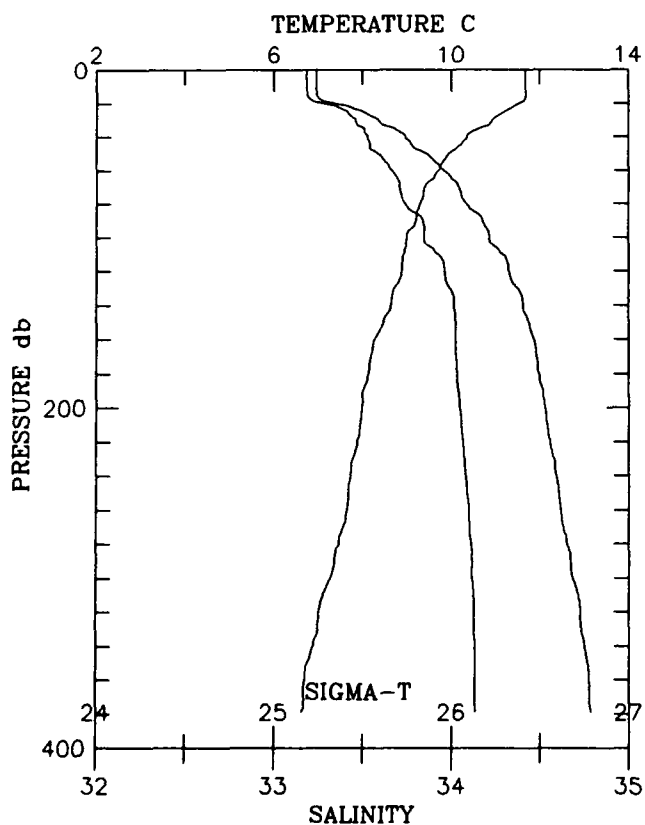
Cruise W8811 Station # 174 Depth m: 93 Time: 24 NOV 1988,2216  
 Position: 38 39.00'N 123 30.00'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.756	33.244	25.272	0.0000	89.40
5.0	11.762	33.247	25.273	0.0109	89.40
10.0	11.763	33.248	25.273	0.0244	89.40
15.0	11.765	33.248	25.273	0.0380	89.40
20.0	11.734	33.256	25.285	0.0516	89.40
25.0	11.565	33.323	25.368	0.0650	90.00
30.0	11.369	33.408	25.470	0.0779	89.00
35.0	11.044	33.449	25.560	0.0904	89.50
40.0	10.561	33.483	25.672	0.1023	91.90
45.0	10.133	33.549	25.797	0.1137	94.90
50.0	10.071	33.559	25.815	0.1248	95.00
55.0	9.780	33.604	25.899	0.1356	95.50
60.0	9.696	33.649	25.948	0.1462	95.60
65.0	9.643	33.667	25.971	0.1565	95.60
70.0	9.538	33.717	26.028	0.1666	95.70
75.0	9.527	33.790	26.086	0.1766	87.40
80.0	9.498	33.812	26.108	0.1863	83.40
83.0	9.469	33.822	26.120	0.1921	83.50



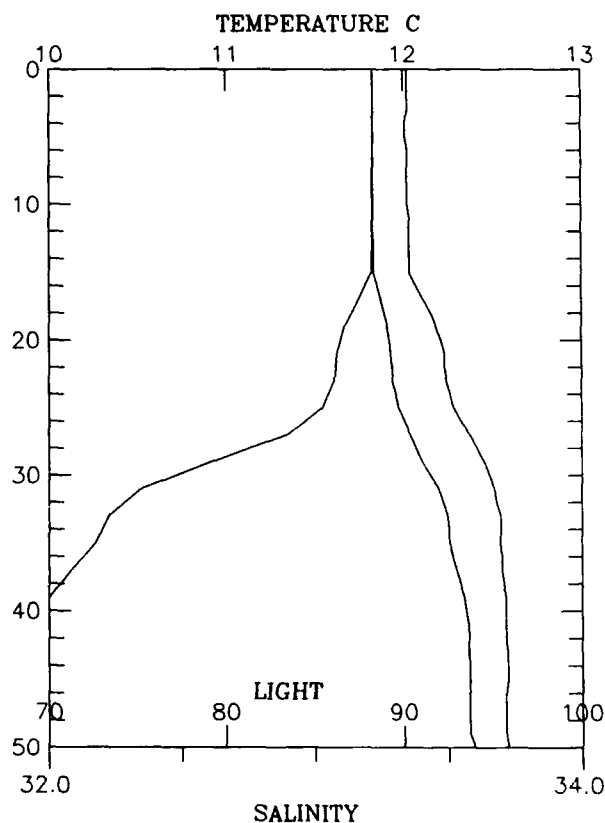
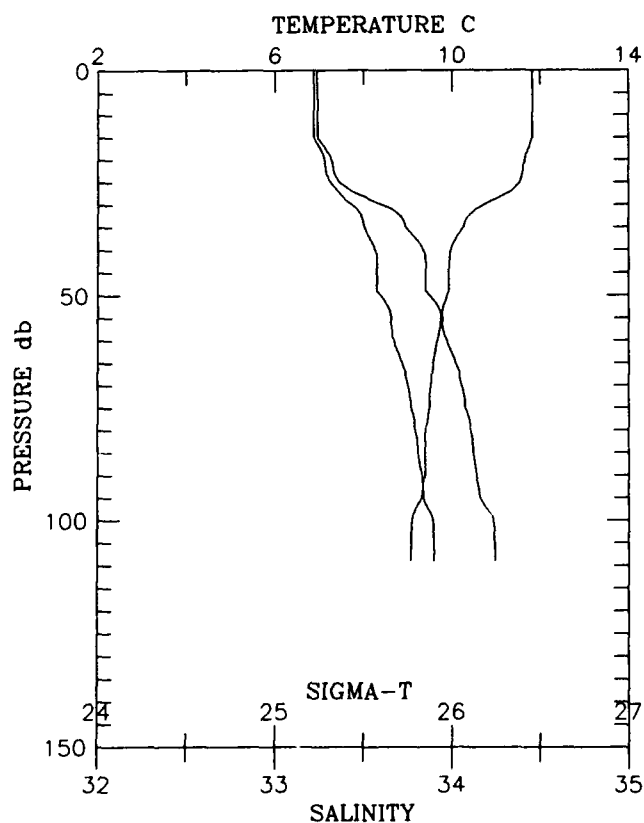
Cruise W8811 Station # 175 Depth m: 117 Time: 24 NOV 1988,2305  
 Position: 38 37.00'N 123 32.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.832	33.214	25.234	0.0000	89.9
10.0	11.832	33.213	25.233	0.0193	90.0
20.0	11.660	33.277	25.315	0.0467	91.8
30.0	10.790	33.426	25.587	0.0725	94.8
40.0	10.128	33.528	25.781	0.0957	95.5
50.0	10.016	33.551	25.818	0.1179	95.6
60.0	9.891	33.592	25.871	0.1397	95.8
70.0	9.646	33.684	25.984	0.1608	95.8
80.0	9.500	33.763	26.069	0.1808	95.6
90.0	9.413	33.818	26.127	0.2003	95.3
100.0	9.193	33.863	26.197	0.2192	91.1
109.0	9.083	33.899	26.243	0.2406	61.0



Cruise W8811 Station # 176 Depth m: 117 Time: 24 NOV 1988, 2315  
 Position: 38 36.30'N 123 32.20'W Depth Deck Offset: 0.00

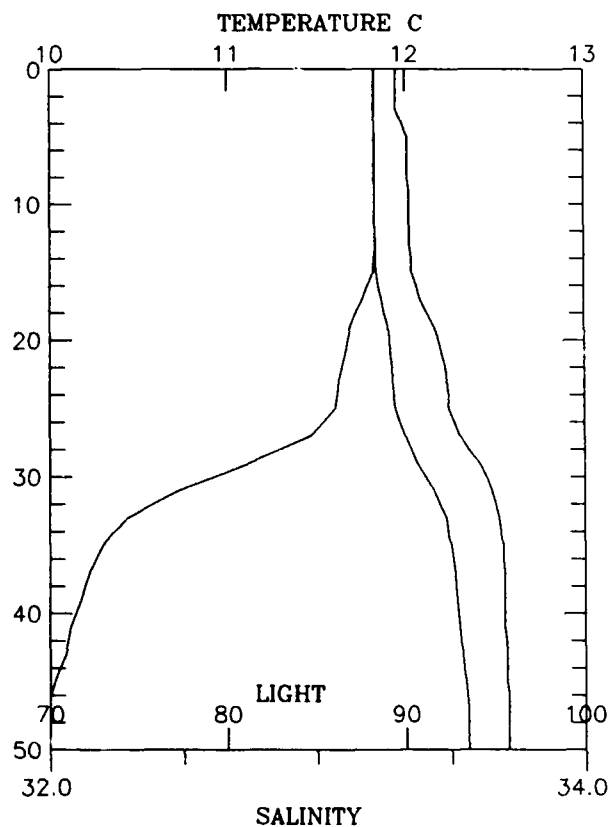
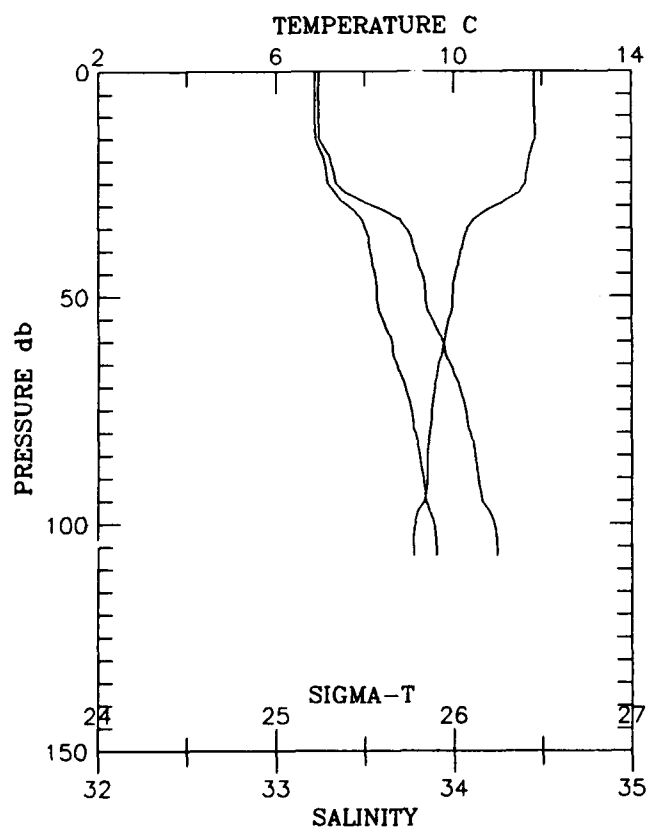
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.829	33.218	25.238	0.0000	90.20
10.0	11.824	33.220	25.240	0.0181	90.20
20.0	11.647	33.279	25.318	0.0454	92.10
30.0	10.720	33.433	25.605	0.0713	94.80
40.0	9.976	33.566	25.836	0.0941	95.70
50.0	9.894	33.598	25.875	0.1158	95.80
60.0	9.667	33.672	25.971	0.1368	95.90
70.0	9.522	33.751	26.057	0.1570	95.70
80.0	9.411	33.793	26.108	0.1766	95.60
90.0	9.386	33.830	26.140	0.1958	95.20
100.0	9.108	33.892	26.234	0.2145	72.00
109.0	9.078	33.900	26.245	0.2308	55.70





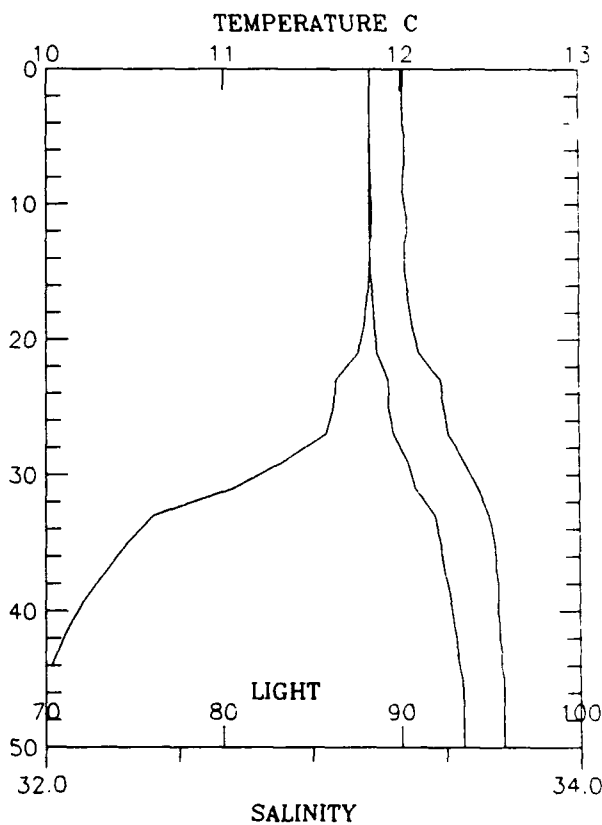
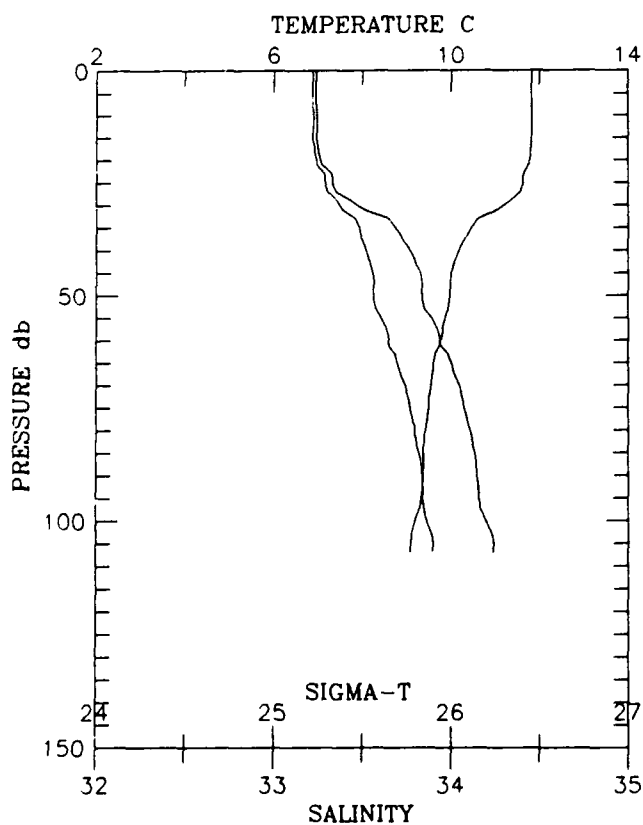
Cruise W8811 Station # 177 Depth m: 117 Time: 24 NOV 1988,2323  
 Position: 38 36.30'N 123 32.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.825	33.218	25.239	0.0000	89.50
10.0	11.828	33.219	25.239	0.0085	90.20
20.0	11.675	33.271	25.308	0.0358	91.80
30.0	10.920	33.405	25.548	0.0620	94.50
40.0	10.144	33.526	25.777	0.0851	95.50
50.0	9.969	33.566	25.838	0.1072	95.70
60.0	9.769	33.648	25.935	0.1287	95.90
70.0	9.562	33.725	26.030	0.1492	95.80
80.0	9.455	33.782	26.092	0.1690	95.60
90.0	9.392	33.826	26.136	0.1883	95.30
100.0	9.124	33.887	26.227	0.2070	78.00
107.0	9.083	33.899	26.243	0.2198	52.10



Cruise W8811 Station # 178 Depth m: 117 Time: 24 NOV 1988, 2330  
 Position: 38 36.30'N 123 32.20'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	11.823	33.217	25.238	0.0000	90.10
10.0	11.825	33.223	25.242	0.0023	90.20
20.0	11.774	33.239	25.264	0.0293	90.80
30.0	11.198	33.371	25.472	0.0558	93.90
40.0	10.179	33.521	25.768	0.0793	95.40
50.0	9.970	33.563	25.836	0.1014	95.70
60.0	9.763	33.647	25.935	0.1229	95.90
70.0	9.543	33.738	26.043	0.1433	95.80
80.0	9.419	33.794	26.107	0.1629	95.60
90.0	9.365	33.836	26.148	0.1821	95.50
100.0	9.191	33.864	26.198	0.2009	91.10
107.0	9.087	33.899	26.242	0.2137	60.80



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<b>16. Abstract (Limit: 200 words)</b>  CTD observations on the R/V <i>Wecoma</i> cruise W8811 were made off the northern California coast November 13-24, 1988 as part of the Shelf Mixed Layer Experiment (SMILE). The survey consisted of repeated mappings of the central transect (C) through the SMILE moored array, and two synoptic sampling surveys—a large-scale grid of four cross-shelf transects extending to both sides of Point Arena and Point Reyes, and a small-scale grid of five cross-shelf transects located near the central SMILE mooring site. The small-scale hydrographic survey had a much higher spatial resolution of CTD stations than the large-scale survey. The primary objectives of the hydrographic measurement program were to observe and characterize the temperature, salinity, density, and light transmission fields and their temporal and spatial variability in the surface boundary layer along the continental shelf and slope near the SMILE moored array, and to acquire an estimate of the cross-shelf and along-shelf scales over which the mixed-layer depth varies. All of the cross-shelf transects extended beyond the shelf break and the maximum sampling depth at each station was near-bottom or 600 m. This report presents a summary in graphic and tabular form of the hydrographic observations made during cruise W8811 on the R/V <i>Wecoma</i> .			
<b>17. Document Analysis a. Descriptors</b> 1. hydrography/CTD 2. N. California coastal region 3. SMILE (Shelf Mixed Layer Experiment)  <b>b. Identifiers/Open-Ended Terms</b>   <b>c. COSATI Field/Group</b>			
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